

Empire State Varnish Co., Inc.
Draft Upland Site Summary

EMPIRE STATE VARNISH CO., INC. (DAR SITE ID #113)

Address: 38 Varick Street Greenpoint, Brooklyn, New York, 11222
Tax Lot Parcel(s): Brooklyn Block 2664, Lot 9 and 25
Latitude: 40.726909
Longitude: -73.935763
Regulatory Programs/
Numbers/Codes: Consent Order Case No. C0 2-20030729-161, NYSDEC No.
224123, USEPA ID No. NYD001233113 (LQG), NYSDEC Spill
Nos. 9901701 and 0312324, PBS No. 2-610887
Analytical Data Status: ☐ Electronic Data Available ☒ Hardcopies only
☐ No Data Available

**1 SUMMARY OF CONSTITUENTS OF POTENTIAL CONCERN (COPCs) TRANSPORT
PATHWAYS TO THE CREEK**

The current understanding of the transport mechanisms of contaminants from the upland portions of the Empire State Varnish Co., Inc., site (site) to Newtown Creek is summarized in this section and Table 1 and supported by the following sections.

Overland Transport

The site is located approximately 530 feet from Newtown Creek or associated waterways. This is not a complete current or historical pathway.

Bank Erosion

The site is not adjacent to Newtown Creek or associated waterways. This is not a complete current or historical pathway.

Groundwater

The hydraulic gradient beneath the site is flat and is currently controlled by the pumping conditions of ExxonMobil's Off-site Recovery System recovery wells, which are located to the east and south of the site. ExxonMobil purchased the site from Empire State Varnish Co., Inc. (Empire), for use with this recovery system to remediate the Greenpoint oil spill—a groundwater plume with light nonaqueous phase liquids (LNAPL) that is located beneath the

site. At the time of monitoring well installation, logs indicate groundwater was encountered at a depth of approximately 15 feet below ground surface (bgs). Historically, groundwater flow at the site has generally been towards Newtown Creek. Three monitoring wells, installed during a 2007 investigation, confirmed this flow direction (Roux 2007). Groundwater is a complete historical pathway and a potentially complete current pathway.

Overwater Activities

The site is not adjacent to Newtown Creek and associated waterways. Information regarding overwater activities was not identified in documents available for review. This is not a complete current or historical pathway.

Stormwater/Wastewater Systems

This site is within the Newtown Creek Water Pollution Control Plant (WPCP) sewershed (NYCDEP 2007). Stormwater and wastewater discharges from the site flow into a combined municipal sewer system. When the combined flows exceed the system's capacity, untreated combined sewer overflows (CSOs) are discharged to the East River via the WPCP Bypass through multiple outfalls. There is insufficient evidence to make a current or historical pathway determination for discharge via the sewer/CSO.

Industrial wastewater has been sampled for baseline purposes, but historical industrial wastewater discharge (IWD) permits for the site were not identified in documents available for review. Corrective action was required due to the presence of unprotected drains in the open yard (draining to the sewer) and numerous violations of process and waste material management (NYCDEP 1993). There is insufficient evidence to make a current or historical pathway determination for direct discharge of stormwater or wastewater.

Air Releases

With the exception of two air permit numbers in the New York State Department of Environmental Conservation (NYSDEC) online database, information regarding air discharges from this site was not identified in documents available for review (NYSDEC 1986). There is insufficient evidence to make a current or historical pathway determination.

2 PROJECT STATUS

On February 26, 2008, the site was issued a No Further Action (NFA) letter by NYSDEC (2008). This was a result of an approved Closure Report, submitted in February 2008 by CA Rich on behalf of Empire (CA Rich 2008). On March 5, 2007, ExxonMobil's consultant Roux Associates, Inc., submitted a Summary of Investigation Activities report to NYSDEC. In 2006, ExxonMobil expressed interest in purchasing the site to expand an existing off-site subsurface oil product recovery system. Empire entered into a Resource Conservation and Recovery Act (RCRA) consent order with NYSDEC on November 16, 2005. A NYSDEC December 2000 Site Investigation yielded numerous violations relating to failure to maintain proper records and failure to properly store, label, and handle the hazardous waste present at the site (Roux 2007; NYSDEC 2003).

A summary of investigation and remedial activities at the site is provided in the following table:

Activity		Date(s)/Comments
Phase 1 Environmental Site Assessment	<input checked="" type="checkbox"/>	Summary of Investigation Activities (Roux March 2007)
Site Characterization	<input checked="" type="checkbox"/>	Subsurface Investigation Report (CA Rich 2007a and 2007b)
Remedial Investigation	<input type="checkbox"/>	
Remedy Selection	<input type="checkbox"/>	
Remedial Design/Remedial Action Implementation	<input checked="" type="checkbox"/>	Closure Plan (CA Rich 2007a)
Use Restrictions (Environmental Easements or Institutional Controls)	<input type="checkbox"/>	
Construction Completion	<input checked="" type="checkbox"/>	Closure Report (CA Rich February 2008)
Site Closeout/No Further Action Determination	<input checked="" type="checkbox"/>	ExxonMobil holds Title to Former Empire property; NYSDEC issued NFA letter to Empire Feb 29, 2008 (NYSDEC 2008)

Notes:

CA Rich – CA Rich Environmental Specialists

NFA – no further action

NYSDEC – New York State Department of Environmental Conservation

3 SITE OWNERSHIP HISTORY

Respondent Member:

☐ Yes ☒ No

Empire was the owner of the site from 1932 to 2008 and is not a respondent. ExxonMobil acquired the site in 2008 and is a respondent.

Owner	Years	Occupant	Types of Operations
Empire State Varnish Company, Inc.	1935 – 2008	Empire State Varnish Company, Inc.	Manufacture of paints, varnishes, urethanes, epoxies, resin solutions, alkyds, specialty paint items, elastomers, and mastics
ExxonMobil Environmental Services	2008 – present	ExxonMobil Environmental Services	Environmental Remediation – Site acquired by ExxonMobil as part of area remedial actions

4 PROPERTY DESCRIPTION

The site is located in Greenpoint, the northern most section of the Borough of Brooklyn, New York City. The property comprises approximately three quarters of an acre (0.69 acre; Roux 2007). This site is located approximately 530 feet south of Newtown Creek, just southwest of the Brooklyn Queens Expressway Kosciuszko Bridge. It is located on the corner of Varick Street (to the west) and Bridgewater Street (to the northeast). Bridgewater Street and Former Paragon Oil Terminal (DAR Site ID #200) are located between the site and the creek. Topographic elevations at the site are approximately 24 feet above mean sea level along Bridgewater Street to the north and rise gradually to approximately 34 feet above mean sea level in the southeast corner of the site (Roux 2007). A site vicinity map is provided as Figure 1. The property is in a commercial/industrial area (zoned for M-1 manufacturing; NYCDP 2011).

5 CURRENT SITE USE

ExxonMobil purchased the site from Empire in 2008 for the purpose of expanding an existing subsurface oil product recovery system. No information is available documenting the product removal system or existing conditions after the cleanup by Empire.

6 SITE USE HISTORY

Empire owned and operated a paint and varnish manufacturing plant from at least 1935 until February of 2008 (NYT 1935; NYSDEC 2008). The company manufactured paints, varnishes, urethanes, epoxies, resin solutions, alkyds, specialty paint items, elastomers, and mastics at the site (USEPA 1980). Built sometime prior to 1935, the arrangement of the buildings, as well as the operations at the site, has remained relatively unchanged over time.

7 CURRENT AND HISTORICAL AREAS OF CONCERN AND COPCS

The current understanding of the historical and current potential upland and overwater areas of concern at the site is summarized in Table 1. The following sections provide brief discussion of the potential sources and COPCs at the site requiring additional discussion.

Potential contaminant areas of concern at the site include production areas and equipment, storage sheds, resin and varnish aboveground storage tanks (ASTs), and mineral spirit underground storage tanks (USTs). COPCs associated with these areas of concern include petroleum hydrocarbons, volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs) and other semi-volatile organic compound (SVOCs), and metals.

7.1 Uplands

Polychlorinated biphenyls (PCBs) were used as a plasticizer sometime prior to the 1980s (NYSDEC 1986). According to a 1982 plant inspection, Empire made both water- and oil-based paints and used mineral spirits and naphtha as solvents to clean out the paint vats between batches. The waste solvent was stored in a 500-gallon holding tank and was later used in the manufacture of black varnishes. From the 1980s to its closure, Empire stored raw and finished products on site in USTs or 55-gallon drums (USEPA 1982, CA Rich 2006). Portions of the property were paved and the remainder was bare soil. Drains were located in the yard where materials were stored (NYSDEC 2007).

One 4,000-gallon UST (Tank ID UST-H) is listed on site under Petroleum Bulk Storage (PBS) No. 2-610887 (NYSDEC 2012). The UST is listed as in-service, and the product stored is listed as "Other" by NYSDEC.

Based on historical operations, the site was separated into five areas, as presented in the Summary of Investigation Activities report (Roux 2007). These areas and their functions included the following:

- **Upper Yard.** This open area adjacent to Varick Street contained three storage sheds and was used to store resins, vegetable oils, and asphalt from the 1940s through the 1990s. From the 1990s through approximately 2004, the Upper Yard was used to store off-spec varnishes prior to their sale or removal as hazardous waste.
- **Main Production Area.** Located directly north of the Upper Yard, and slightly lower in elevation, this area contained a number of buildings and sheds including offices, a laboratory, a boiler room, and the varnish cook house. Since the 1940s, these areas were used for cooking, mixing, storing, and loading vegetable oils, resins, and varnishes.
- **Lower Yard.** Located east of the main production area, facing Bridgewater Street, this area contained three storage rooms, a paint manufacturing room, and a tank wagon. The storage rooms and paint room contained paint ingredients and finished paints since the 1960s.
- **Tank Farm.** Located west of the lower yard, facing Bridgewater Street, this area contained one building which housed 28 ASTs, ranging in capacity from 462 to 3,290 gallons, and was historically used to store resins and varnishes. Mineral spirits were stored in 17 USTs located adjacent to the AST building until the early 1980s.

ASTs, Kettles, and Containers. Additional tanks were located throughout the property, including 11 ASTs (375- to 1,500-gallon capacity, containing residual varnish, solvents, resin, or nothing) and 26 portable kettles used for mixing and cooking (substantial residual coating in the steel kettles ranging from a few ounces to 5 gallons; Roux 2007). During the time Empire occupied the site, numerous violations were imposed by NYSDEC relating to poor housekeeping and process and waste management. At various inspections, up to 1,000 drums were documented at the site and numerous drums were in poor condition with no containment or labeling. Tanks and drums were removed during the site closure activities.

Historical COPCs at the site include constituents related to the manufacture of paints, varnishes, urethanes, epoxies, resin solutions, alkyds, specialty paint items, elastomers and mastics, and associated former process wastes. Waste manifests indicate that lead, benzene, and spent halogenated solvents—including methylene chloride, trichloroethylene (TCE),

chlorobenzene, trifluoroethane, orthodichlorobenzene, and trichlorofluoromethane—are COPCs on the site. One reference to the use of PCBs was located in a 1986 Compliance Inspection Report and stated, “Only 1 shipment of the past three years of 45 gallons of PCBs” (NYSDEC 1986). Small amounts of asbestos were also present in buildings before demolition.

Potential COPCs were investigated in both soil and groundwater as part of a NYSDEC Consent Order requiring site cleanup and investigations relating to the property acquisition by ExxonMobil. Benzene, toluene, ethylbenzene, and xylene (BTEX); chlorinated volatile organic compounds (CVOCs); SVOCs; metals (including arsenic, barium, copper, lead, and mercury); and other VOCs were detected in the soil above NYSDEC Restricted-Commercial Part 375 COPCs. In groundwater, CVOCs, SVOCs, metals (including barium, cadmium, copper, manganese, and sodium), and other VOCs were detected above NYSDEC Restricted-Commercial Part 375 (Roux 2007).

Much of the groundwater in the Greenpoint area is affected by the presence of area-wide groundwater and product plume associated with the Greenpoint Oil Spill. This “Greenpoint Oil Spill” was discovered by the U.S. Coast Guard seeping into Newtown Creek at the foot of Meeker Avenue in September 1978 (CA Rich 2008). Analytical results from groundwater sampling at the site were consistent with area-wide concentrations, all samples exceeded NYSDEC Ambient Water Quality Standards and Guidance Values (AWQSGV) for VOCs, SVOCs, metals, and some samples exceeded AWQSGV for total petroleum hydrocarbon (TPH). However, 1,1,1-trichloroethane (TCA) was detected at the site and was not detected in historical groundwater samples collected at other sites within the Greenpoint area (Roux 2007).

LNAPL accumulations beneath the site are part of a larger LNAPL plume that extends to the east, west, and south of the property. These accumulations of LNAPL were collectively referred to as the Off-site Plume associated with the Greenpoint oil spill in the site investigations.

7.2 Overwater Activities

The site is not adjacent to Newtown Creek or associated waterways. Information regarding overwater activities was not identified in documents available for review.

7.3 Spills

Documented spills at the site are summarized as follows:

- On May 13, 1999, a traffic accident caused a spill of 20 gallons when a fuel tank containing diesel was punctured (NYSDEC Spill No. 9901701; EDR 2010; NYSDEC 2012).
- On February 5, 2004, a spill from abandoned drums resulted in 1 gallon of waste oil with impacts to soil (NYSDEC Spill No. 0312324). The spill was closed on February 27, 2004 (NYSDEC 2012).

8 PHYSICAL SITE SETTING

8.1 Geology

Geologic information for the site is presented in the 2007 Summary of Investigation Activities report (Roux 2007) and Subsurface Soil Investigation report (CA Rich 2007b). Western Long Island regional geology consists of unconsolidated deposits. In vertical ascending order they are Cretaceous Raritan and Magothy Formations, Pleistocene Jameco Gravel, Gardiners Clay and glacial drift, and recent fill material. These overlaying deposits form a southward dipping wedge. The Precambrian bedrock surface, which is exposed in northwest Queens County, slopes southeast at 80 feet per mile. The Upper Glacial Aquifer is the primary aquifer present within the Greenpoint area (Buxton et al 1981; Roux 2007). The unconsolidated deposits under the Greenpoint Area consist of glacial drift, marine clays/silts, and artificial fill. A total of eleven borings and three monitoring wells have been completed at the site (see Attachment 1). Beneath the site, the deposit of glacial outwash consists of a well-graded deposit of medium to coarse-grained sand with some occasional silt, fine sand, and gravel. Based on the monitoring well and soil boring logs available in Attachment 2, this layer is composed of silty sands within the northern portion of the site. However, this layer was not observed underlying the entire site, specifically near monitoring well (MW) 94. Overlying all of this fine-grained deposit is fill material that was placed in

the mid-1800s. The fill occurs at the surface throughout the site, with a maximum observed thickness of approximately 13 feet (Roux 2007). See Attachment 2 for boring locations.

8.2 Hydrogeology

Three monitoring wells (MW-90, MW-93, and MW-94) ranging from total depths of 28 to 45 feet bgs were used to study the site hydrology (Roux 2007). Monitoring wells were screened from 25 to 45 feet bgs (MW-90 and MW-93) and 13 to 28 feet bgs (MW-94). In addition, numerous regional groundwater monitoring wells are present adjacent to the site as part of the Greenpoint Spill investigations. Groundwater mostly occurs within the upper glacial aquifer, beneath the Greenpoint Area. At the time of monitoring well installation, logs indicate groundwater was encountered at a depth of approximately 15 feet bgs. The hydraulic gradient beneath the site is relatively flat and is currently controlled by ExxonMobil's Off-site Recovery System recovery wells, located to the east and south of the site. The off-site recovery system location is shown in Attachment 3. Under static conditions, groundwater flow from the site is generally towards Newtown Creek. Under pumping conditions, the depression in the groundwater reverses the natural groundwater flow along the northern boundary of the site. As indicated in Attachment 4, areas of groundwater depression are present near the Off-site System recovery wells during normal Off-site System operation. Attachment 4 also indicates that the Off-site System is exerting hydraulic control over the flow of groundwater to Newtown Creek (Roux 2007).

9 NATURE AND EXTENT (CURRENT UNDERSTANDING OF ENVIRONMENTAL CONDITIONS)

9.1 Soil

Assessment of the nature and extent of contamination related to varnish production and distribution and the regional Greenpoint area groundwater plume was performed during two investigation events. In addition, a cleanup action relating to former UST removal included confirmation soil sampling. The first investigation is summarized in the Summary of Investigation Activities report by Roux on behalf of ExxonMobil in March 2007. This investigation consisted of five temporary soil borings (SB-1 to SB-5 Roux, 2007) and three monitoring wells. CA Rich, on behalf of Empire, collected an additional six soil samples (GP 1 to GP 6) as described in the Subsurface Soil Investigation report (CA Rich 2007b).

Attachment 1 shows the locations for the CA Rich investigation and Attachment 5 shows the locations for the Roux investigation. After these investigations, the sampling activities prescribed and conducted by the facility closure plan were limited to confirmation sampling for UST removals. This work was done by CA Rich on behalf of Empire to prepare the site for sale to ExxonMobil. The closure report was completed in February 2008 (CA Rich 2008).

Soil Investigations ☒ Yes ☐ No
 Bank Samples ☐ Yes ☐ No ☒ Not Applicable
 Soil-Vapor Investigations ☐ Yes ☒ No

9.1.1 Soil Investigations

Surface soil (less than 2 feet bgs) and subsurface soil samples were collected during 2006 and 2007 as part of two investigation events conducted by Roux and CA Rich. A total of eight surface soil samples and 16 subsurface soil samples were collected and selectively analyzed for VOCs, SVOCs, metals, and Toxicity Characteristic Leaching Procedure for RCRA metals. Soil sampling included samples collected at the time of monitoring wells installation. The soil results are included in Attachments 2 and 6 and those soil sampling results that exceed NYSDEC Restricted-Commercial Use criteria are summarized in the following table:

Analyte ¹	Units	Minimum Soil Concentration	Maximum Soil Concentration
Surface Soil (0 to 2 feet)			
Benzo(a)anthracene	µg/kg	49	21,400
Benzo(a)pyrene	µg/kg	40.6	17,700
Benzo(b)fluoranthene	µg/kg	60.7	22,900
Dibenzo(a,h)anthracene	µg/kg	74.9	3,270
Indeno(1,2,3-cd)pyrene	µg/kg	36.7	10,100
Arsenic	mg/kg	3.7	72.3
Barium	mg/kg	76.4	1,390
Copper	mg/kg	34.5	4,490
Lead	mg/kg	68.7	1,730
Mercury	mg/kg	0.11	3.6
Subsurface Soil (> 2 feet)			
1,2,4-trimethylbenzene	µg/kg	1.8	483,000

Analyte ¹	Units	Minimum Soil Concentration	Maximum Soil Concentration
1,3,5-trimethylbenzene	µg/kg	2	205,000
Benzene	µg/kg	0.81	73,900
Xylene (Total)	µg/kg	5	1,440,000
Benzo(a)anthracene	µg/kg	18.1	21,400
Benzo(a)pyrene	µg/kg	26.7	17,700
Benzo(b)fluoranthene	µg/kg	26.2	22,900
Dibenzo(a,h)anthracene	µg/kg	21.5	3,270
Arsenic	mg/kg	0.073	22.3 ²
Copper	mg/kg	8.6	4,490
Pyrene	mg/kg	ND	160,000

Notes:

1 – Confirmation soil sampling performed during site closure activities are presented in Section 10.

2 – Duplicate sample had arsenic concentration of 0.073U.

µg/kg – microgram per kilogram

mg/kg – milligram per kilogram

ND – not detected

VOCs were detected in one soil sample at concentrations greater than the Restricted Commercial Use cleanup criteria (Roux 2007; CA Rich 2007b). These VOCs were detected in a deeper subsurface soil sample (29 to 31 feet bgs) and included 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, and xylenes (total).

SVOCs were detected in five soil samples at concentrations greater than the Restricted Commercial Use cleanup criteria. Exceedances were detected within the shallow soil samples (i.e., 1 to 2 feet bgs) at locations SB-1, SB-5, and MW-93, as well as the subsurface samples collected at SB-5 (12.5 to 15 feet bgs) and GP-2 (3 to 4 feet bgs). PAHs were the only SVOCs that were detected at concentrations that exceeded Restricted Commercial Use soil criteria. The highest concentrations were at SB-1 and SB-5 (Roux 2007; CA Rich 2007b).

Metals were detected in eight soil samples at concentrations greater than the Restricted Commercial Use cleanup criteria. Exceedances of metals were detected within the shallow soil samples at locations SB-1, SB-2, SB-4, MW-90, MW-93, and MW-94, as well as the subsurface samples collected at SB-5 (12 to 15 feet bgs) and GP-2 (3 to 4 feet bgs). Metals detected at concentrations exceeding the soil criteria included arsenic, barium, copper, lead,

and mercury, with the highest concentrations detected at SB-1 and the SB-5 (Roux 2007; CA Rich 2007).

9.1.2 Soil Summary

The results of soil investigations at the site indicate that historical varnish and paint manufacturing operations at the site did not cause site-wide impacts. Localized surface and subsurface impacts were identified at the south and north portions of the site and were not associated with historical chemical use including solvents and paints. Elevated VOCs were detected in one deeper soil sample (29 to 31 feet bgs); however, this soil sample may be more representative of the regional groundwater plume (Roux 2007; CA Rich 2007).

Additional soil sampling was performed during the site closure activities in 2008; however, this soil sampling was focused on confirmation of soil removal as part of the UST decommissioning and cleanup. Soil associated with these results was removed in consultation with NYSDEC. A summary of site closure activities is provided in Section 10.

9.2 Groundwater

Groundwater Investigations	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
NAPL Presence (Historical and Current)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Dissolved COPC Plumes	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Visual Seep Sample Data	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable

9.2.1 Groundwater Investigations

A groundwater investigation was performed to determine the presence of impacts from historical site operations and also to identify potential impacts from the regional groundwater plume associated with the Greenpoint spill. Groundwater samples were collected as part of the 2006 investigation from the three on-site monitoring wells and from one existing monitoring well immediately north of the site (along Bridgewater Street). Groundwater samples were analyzed for TPH, VOCs, SVOCs, and metals. Along with groundwater sampling, monitoring wells were gauged for nonaqueous phase liquid (NAPL) due to the presence of the regional groundwater plume associated with the Greenpoint spill.

The groundwater samples had concentrations of VOCs greater than the NYSDEC AWQSGV, with the highest concentrations detected in groundwater samples collected from monitoring wells MW-90 and MW-93. The majority of the VOCs that were detected at concentrations exceeding their respective criteria were petroleum-related compounds. In addition, chlorinated solvents, specifically TCA, 1,1-dichloroethane (DCA), and 1,1-dichloroethene, were detected in the groundwater sample collected from monitoring well MW-90 at concentrations exceeding the AWQSGVs. Of these chlorinated compounds, TCA is the only compound that has not been detected within any other historical groundwater sample collected by Roux Associates within the Greenpoint area (Roux 2007).

The groundwater samples had concentrations of SVOCs greater than the AWQSGV, with the highest concentrations detected in samples collected from monitoring wells MW-90 and MW-93 (Roux 2007). The groundwater samples had concentrations of metals greater than the AWQSGV, with the highest concentrations detected in samples collected from monitoring wells MW-27 and MW-94.

The metals detected at concentrations exceeding the groundwater criteria included barium, cadmium, copper, manganese, and sodium. It has been documented that saline intrusion has occurred throughout a majority of Brooklyn, and it is likely that this is the cause of the elevated manganese and sodium concentrations (Roux 2007). The barium, copper, and cadmium have been detected at similar concentrations in some of the historical groundwater samples collected by Roux Associates within the Greenpoint area (Roux 2007). TPH analysis was completed for the groundwater samples collected. TPH concentrations ranged from 1.9 micrograms per liter ($\mu\text{g/L}$; at MW-27) to 63.6 $\mu\text{g/L}$ (at MW-93; Roux 2007).

The groundwater results are included in Attachment 7 and those compounds that exceed AWQSGV criteria in at least one sample are summarized in the following table:

Analyte	Units	Minimum Groundwater Concentration	Maximum Groundwater Concentration
Total Petroleum Hydrocarbons			
TPH	$\mu\text{g/L}$	1.9	63.6

Analyte	Units	Minimum Groundwater Concentration	Maximum Groundwater Concentration
Volatile Organic Compounds (VOCs)			
1,1,1-Trichloroethane	µg/L	1U	590
1,1 Dichloroethane	µg/L	1.5	205
1,1 Dichloroethene	µg/L	1U	8J
1,2,4-Trimethylbenzene	µg/L	2.4J	2,910
1,3,5-Trimethylbenzene	µg/L	5U	1,090
Benzene	µg/L	68.3	17,500
Chloroethane	µg/L	5U	20.5
Ethylbenzene	µg/L	5.8	2,130
Isopropylbenzene	µg/L	3	334
m+p-Xylene	µg/L	9.4	10,500
MTBE	µg/L	5U	67.2
Naphthalene	µg/L	5.7	972
n-Butylbenzene	µg/L	1.3J	134
n-Propylbenzene	µg/L	3.1J	421
o-Xylene	µg/L	0.92J	3,880
Sec-butylbenzene	µg/L	0.82J	47.8
Toluene	µg/L	2.1	18,400
Xylenes (total)	µg/L	10.4	13,800
Semi Volatile Organic Compounds (SVOCs)			
Acenaphthene	µg/L	2U	20.7
Benzo(a)anthracene	µg/L	2U	3.3
Phenanthrene	µg/L	2U	67.9
Benzo(b)fluoranthene	µg/L	2U	0.8J
Benzo(k)fluoranthene	µg/L	2U	0.83J
Bis(2-ethylhexyl)phthalate	µg/L	2U	21.4
Chrysene	µg/L	2U	5.3
Naphthalene	µg/L	1.2J	531
Phenanthrene	µg/L	2U	67.9
Phenol	µg/L	2.5J	61.5
Metals			
Arsenic	µg/L	11.5	41.5
Barium	µg/L	599	16,900
Cadmium	µg/L	4U	11.4
Chromium	µg/L	10U	123

Analyte	Units	Minimum Groundwater Concentration	Maximum Groundwater Concentration
Copper	µg/L	34.8	554
Lead	µg/L	14	584
Manganese	µg/L	1,350	3,440
Mercury	µg/L	0.2U	9.3
<i>Conventional</i>			
Sodium	µg/L	25,900	357,000

Notes:

µg/L – microgram per liter

J – detected under laboratory detection limits

SVOC – semi-volatile organic compound

U – analyzed for but not detected

VOC – volatile organic compound

9.2.2 ***NAPL Presence (Historical & Current)***

NAPL gauging indicated the presence of LNAPL in one on-site monitoring well (MW-90) and a sample of LNAPL was collected from MW-90. LNAPL was observed within monitoring wells MW-90 and MW-93 (Roux 2007). This was not attributed to the work at the site but rather the Off-site Plume. The Off-site Plume is present beneath a majority of the Empire Property (Roux 2007). LNAPL accumulations beneath the site are part of a larger LNAPL plume that extends to the east, west, and south of the property. These accumulations of LNAPL were referred to in reports as the Off-site Plume or Greenpoint Oil Spill, which is being actively remediated as part of the Greenpoint Remediation Project. The average LNAPL thickness beneath the Empire Property is approximately 1.5 feet, based upon the observed LNAPL thickness within monitoring well MW-93 and the monitoring wells in the vicinity of the Empire Property. The composition of the LNAPL beneath the Empire Property is very similar to the surrounding Off-site Plume and is made up primarily of light-end distillates, with some middle and heavier distillates, and the LNAPL density and viscosity average about 0.79 grams per cubic meter (g/cm³) and 0.99 centipoise, respectively, based on the analysis of the LNAPL sample obtained from MW-90 (Roux 2007). The Greenpoint Oil Spill is characterized as a relatively large subsurface plume of oil occurring in the subsurface present chiefly at water table depths. More than 9 million gallons of hydrocarbon product had been recovered, according to the 2008 CA Rich report

(CA Rich 2008). Empire is not responsible for the petroleum-impacted soil or underlying groundwater quality associated with the widespread petroleum spill (CA Rich 2008).

9.2.3 Dissolved Contaminant Plume

The groundwater investigation described above determined that water under the site was impacted from the regional groundwater plume associated with the Greenpoint spill. Chemicals present in the plume include TPH, VOCs, SVOCs, metals, and LNAPL.

See Attachment 7 and the table in 9.2.1 for the chemicals present and exceeding the NYSDEC AWQSGV in the groundwater plume.

9.2.4 Groundwater Summary

Groundwater samples were taken from three on-site monitoring wells and one off-site well immediately north of the site during the site investigation. Groundwater testing results show that groundwater concentrations exceeded the NYSDEC AWQSGV for VOCs, SVOCs, and metals (Roux 2007). The site had no remedial activities done to address groundwater exceedances or NAPL underlying the site. This is because it was purchased by ExxonMobil Environmental Services to be used for the Greenpoint groundwater remediation effort. Groundwater contamination was not considered the responsibility of the site (Roux 2007).

9.3 Surface Water

Surface Water Investigation

☐ Yes ☒ No

SPDES Permit (Current or Past)

☐ Yes ☒ No

Industrial Wastewater Discharge Permit (Current or Past)

☐ Yes ☒ No

Stormwater Data

☐ Yes ☒ No

Catch Basin Solids Data

☐ Yes ☒ No

Wastewater Data

☒ Yes ☐ No

9.3.1 Stormwater and Wastewater Systems

Storm sewers were located in outdoor yard areas within reach of potential spills (Empire [date unknown]).

In a 1982 questionnaire on production and wastewater characteristics, it was reported that the site's discharge of water to the sanitary sewer system was 1,900 hundred cubic feet per year. In the same questionnaire, it was noted that the site did not have a State Pollutant Discharge Elimination System (SPDES) or National Pollutant Discharge Elimination System (NPDES) permit or that the site discharged liquid wastes to the sanitary sewer (Empire 1982).

This site is within the Newtown Creek WPCP sewershed. Some stormwater and wastewater discharges from the site flow directly into the storm sewers, while some enters a combined municipal sewer system. When the combined flows exceed the system's capacity, untreated CSOs are discharged to the East River via the WPCP Bypass through multiple outfalls.

A 1985 New York City Department of Environmental Protection (NYCDEP) Bureau of Water Pollution Control Tier II report from the site states, "the kettles which are used for cooking and thinning varnish (pigments contain titanium dioxide, calcium carbonate, and magnesium silicate) are connected to a fume control system where the fumes are scrubbed with water. This water then goes through three settling tanks before being discharged to the sewer. This system uses approximately 125,000 gallons per year. This is the only reported process wastewater discharged to the sewer. All water used for washing tanks is reused" (Stark 1985).

A notable issue of violation involved a long string of correspondences in the 1990s between Empire and NYCDEP. NYCDEP ordered Empire to put all tanks and chemical storage systems into a diked area because of the drains in the open yard. Empire worked towards compliance with this order, requested many extensions, installed caps over the floor drains, and ultimately received several monetary fines (NYCDEP 1993).

A practice of removing accumulated water on the property and discharging it to a storm drain is documented photographically in a daily observation report (NYSDEC 2007).

9.3.2 Industrial Wastewater Discharge Permit

Information reviewed in available documents indicates that wastewater was sampled for a baseline monitoring report in 1985; however, IWD permits were not available for review. Results from the baseline monitoring are attached in Attachment 8.

9.4 Sediment

Creek Sediment Data

☐ Yes ☐ No ☒ Not Applicable

Information regarding sediment investigations was not identified in documents available for review.

9.5 Air

Air Permit

☐ Yes ☒ No

Air Data

☐ Yes ☒ No

Information related to air discharges was not located for this site except for two air permit numbers without supporting information (NYSDEC 1986). The U.S. Environmental Protection Agency (USEPA) Enforcement and Compliance History Online (ECHO) database did not report historical air releases.

10 REMEDIATION HISTORY (INTERIM REMEDIAL MEASURES AND OTHER CLEANUPS)

One cleanup occurred on this site to facilitate the site closure. Major components of the site closure included the off-site disposal of 50 cubic yards of nonhazardous solids, 334 drums of hazardous waste, two drums of hazardous waste, four drums of non-hazardous waste, 36 drums of nonhazardous waste, three transite asbestos panels, 2,014 gallons of non-hazardous bulk liquid waste, 479.41 tons of non-hazardous bulk soil, 29 ASTs, and 17 USTs (CA Rich 2007a). The site closure report was completed and an NFA letter was issued by NYSDEC in 2008 (CA Rich 2008; NYSDEC 2008).

During AST and UST removal, confirmatory samples were taken in accordance with NYSDEC's draft Division of Environmental Remediation (DER) 10 Technical Guidance for Site Investigation and Remediation. One endpoint soil sample (e.g., confirmation sample) was collected from every 15-foot interval along the western and northern walls and bottom of the tank pit (CA Rich 2008). Results showed VOCs and PCBs below applicable cleanup criteria. The exception was in the No. 2 bottom sample where lead was found at 1,880 parts per million (ppm; criteria is 1,000 ppm) and arsenic and barium were found at 16.7 and 564 ppm (criteria is 16 and 400 ppm), respectively. Two SVOCs were also detected above the cleanup level at the bottom of No. 2. Benzo(a)pyrene was detected at 3.2 ppm, exceeding recommended cleanup level of 1 ppm, and dibenzo(a,h)pyrene was detected at 0.61 ppm, also exceeding the recommended cleanup level of 0.56 ppm. In the report, concentrations detected above the criteria were attributed to ash and debris found in the excavation, rather than historical site use. Additional material was removed down to 15.5 feet in areas with exceedances before backfilling. Soil around tanks with indications of spills and higher soil results were removed. See attachment 9 and 10 for confirmation sampling results and locations (CA Rich 2008).

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12 ATTACHMENTS

Figures

Figure 1 Site Vicinity Map: Empire State Varnish Co., Inc.

Tables

Table 1 Potential Areas of Concern and Transport Pathways Assessment

Supplemental Attachments

Attachment 1 Figure 1: Soil Boring Locations (CA Rich 2008)
Attachment 2 Soil Borings and Monitoring Logs (Roux 2007 and CA Rich 2008)
Attachment 3 Figure 1: Site Plan (Location of Regional Recovery System) (Roux 2007)
Attachment 4 Figure 4: Contour map (Roux 2007)
Attachment 5 Figure 2: Site Plan (CA Rich 2008)
Attachment 6 Soil Analytical (CA Rich 2008)
Attachment 7 Tables 2-12 Soil and Groundwater Results (Roux 2007)
Attachment 8 Results of BMR
Attachment 9 Endpoint soil sample analytical (CA Rich 2008)
Attachment 10 Figure 3: Endpoint samples and site map (CA Rich 2008)

Table 1
Potential Areas of Concern and Transport Pathways Assessment – Empire State Varnish Co., Inc.

Potential Areas of Concern	Media Impacted					COPCs													Potential Complete Pathway							
Description of Areas of Concern	Surface Soil	Subsurface Soil	Groundwater	Catch Basin Solids	Creek Sediment	TPH			VOCs			SVOCs	PAHs	Phthalates	Phenolics	Metals	PCBs	Herbicides and Pesticides	Dioxins/Furans	Overland Transport	Groundwater	Direct Discharge – Overwater	Direct Discharge – Storm/Wastewater	Discharge to Sewer/CSO	Bank Erosion	Air Releases
						Gasoline-Range	Diesel – Range	Heavier – Range	Petroleum Related (e.g., BTEX)	VOCs	Chlorinated VOCs															
Upper yard (varnish storage)	√	√	√	?	?	?	?	?	?	√	√	√	√	?	?	√	?	?	?	--	?	--	?	?	--	?
Main production area	√	√	√	?	?	?	?	?	?	√	√	√	√	?	?	√	?	?	?	--	?	--	?	?	--	?
Lower Yard	√	√	√	?	?	?	?	?	?	√	√	√	√	?	?	√	?	?	?	--	?	--	?	?	--	?
Tank farm area (ASTs and USTs)	√	√	√	?	?	?	?	?	?	√	√	√	√	?	?	√	?	?	?	--	?	--	?	?	--	?
ASTs, kettles, and containers (locations throughout the property)	√	√	√	?	?	?	?	?	?	√	√	√	√	?	?	√	?	?	?	--	?	--	?	?	--	?

Notes:

√ – COPCs are/were present in areas of concern having a current or historical pathway that is determined to be complete or potentially complete.

? – There is not enough information to determine if COPC is/was present in area of concern or if pathway is complete.

-- – Current or historical pathway has been investigated and shown to be not present or incomplete.

AST – aboveground storage tank

BTEX – benzene, toluene, ethylbenzene, and xylene

COPC – constituent of potential concern

CSO – combined sewer overflow

PAH – polycyclic aromatic hydrocarbon

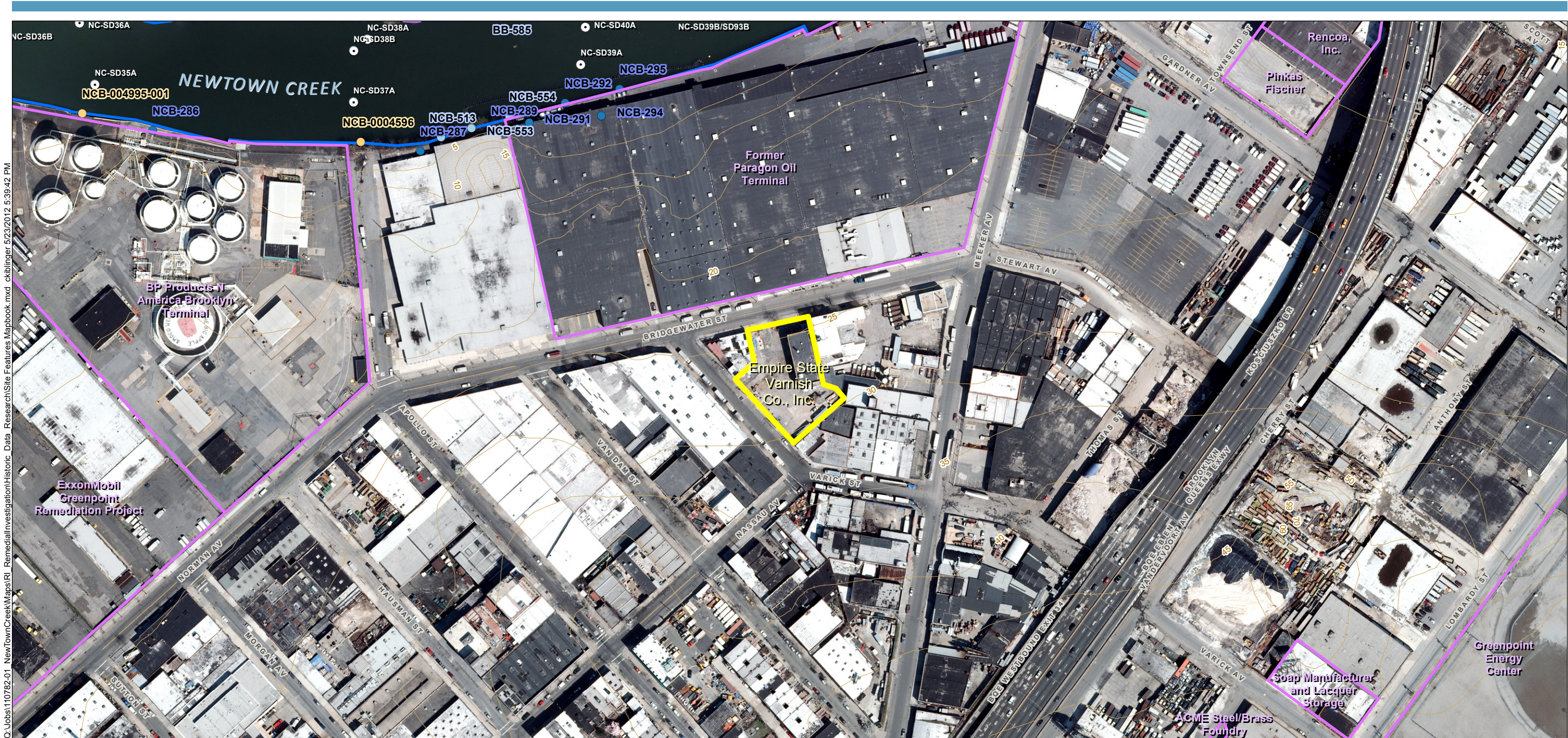
PCB – polychlorinated biphenyl

SVOC – semi-volatile organic compound

TPH – total petroleum hydrocarbon

UST – underground storage tank

VOC – volatile organic compound



● USEPA Sample Locations (Surface and Subsurface)
— Shoreline (NYC Dept. of Information Technology, 2006)
— USGS Nat'l Elev. Dataset 5-foot Contours
 Selected Site Property Boundary
 Neighboring Site Property Boundary

Outfall Class

- Direct Discharge
- General
- Highway Drain
- Major Stormwater Outfall
- SPDES
- Storm Drain

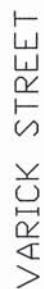
NOTES:

1. Outfall Labeling: BB: Bowery Bay; NC(B/Q): Newtown Creek, Brooklyn/Queens; ST: Stormwater.
2. Outfall locations are preliminary, compiled, estimated data based on New York City Department of Environmental Protection (NYCDEP) maps and tabulated data and other resources. Many outfall locations were taken from the New York City Shoreline Survey Program: Newtown Creek Water Pollution Control Plant Drainage Area, NYCDEP, March 31, 2003. Other locations were taken from an excerpt from a similar report from 2008 (the complete report was not included in files available for review). Finally, some outfall locations were inherited from previous Anchor QEA and Newtown Creek Project work. Latitudinal and longitudinal data provided in the 2003 and 2008 NYCDEP reports were rounded to the nearest second. This resulted in potential outfall location discrepancies of up to approximately 200 feet. All outfall locations are currently under field verification.
3. Aerial Photos: New York State Division of Homeland Security and Emergency Services, 2010.
4. Site Boundaries are based on New York City parcels data.
5. Coarse topographic contours are derived from U.S. Geological Survey 10-meter data.

0 100 200 300 400

Feet

SUPPLEMENTAL ATTACHMENTS



● CA Rich Soil Boring Location



ExxonMobil Monitoring Well



Previous Soil Boring Location

Approximate Property Boundary



Certified Groundwater and Environmental Specialists
17 Dupont Street, PLainview, New York 11803

TITLE:

SITE PLAN & SAMPLING LOCATIONS

DATE: _____

6/6/07

SCALE

AS SHOWN

FIGURE:

1

EMPIRE STATE VARNISH
38 VARICK STREET
BROOKLYN, NEW YORK

<p>DRAWN BY:</p>	
-------------------------	--

D.H.W..

APPR BY:

CTM

NEWT-0089362



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SOIL BORING LOG

WELL NO. SB-1	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 17230Y17 / ExxonMobil - Greenpoint	LOCATION Greenpoint	
APPROVED BY C. Proce	LOGGED BY T. Pitterle	Brooklyn, New York
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing / Jiri	GEOGRAPHIC AREA Empire Varnish	
DRILL BIT DIAMETER/TYPE 2-in. / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD 6610 / Geoprobe
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	SAMPLING METHOD 2" Macro-Core
	BACKFILL Soil cuttings	START-FINISH DATE 12/11/06-12/14/06

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
0.0		Concrete.		0.0	
5		Dark brown, fine to coarse SAND, little Concrete, trace Silt, trace wood; moist.			Soil sample, SB-1/1-2, collected for VOCs, SVOCs, metals, TPH and full list TCLP analyses.
		Asphalt.			
		Brown, fine to medium SAND, trace Silt, trace Gravel; dry.			
5					5
		Orange-brown, medium to fine SAND, little Gravel, trace pyrite; dry to moist.		3.0	Soil staining and odors evident.
		Grayish brown, medium to fine SAND, some Gravel, trace red Brick; dry to moist.			
		Gray, fine to medium SAND, little Gravel; dry to moist.		10.6	
10					10
		Brown, fine to medium SAND, trace Gravel; dry.		0.0	Soil staining and odors evident.
				0.8	
15					15
		Brownish-gray, medium to fine SAND, little Gravel; dry to moist.		15.8	
		Brownish-gray, medium to coarse SAND, some Quartz, little Gravel; dry.			
		Brownish-gray, fine to medium SAND, little Gravel; dry.		4.0	
20					20
		Brownish-gray fine to medium SAND, some Gravel, trace Granite; dry.		61.9	
		Orange-brown, fine to medium SAND, little Gravel; moist.			
		Brownish-gray, fine to coarse SAND, some Gravel, little Coal, trace red Brick; moist.		13.8	
25					25
		Brown, coarse to medium SAND, little Gravel; moist.			
		Brown, medium to fine SAND, moist.			
		Brownish-gray, medium to coarse SAND, some Gravel, trace Quartz and red Brick; moist.		175	
		Brownish-gray, fine to medium SAND; MOIST.			
		Brown, fine SAND, some Silt; moist.		31.2	Soil staining and odors evident.
		Brown, fine to medium SAND; moist.			Soil sample, SB-1/27.5-30, collected for VOCs, SVOCs, metals, TPH and full list TCLP analyses.
30					30
		Brown, fine to medium SAND, trace Silt; moist.		218	
		Brownish-gray, fine to medium SAND; wet			Odors and free-product present.
				188	
35					Bottom of Boring at 35 ft bis. 35

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SOIL BORING LOG

WELL NO. SB-2	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 17230Y17 / ExxonMobil - Greenpoint	LOCATION Greenpoint	
APPROVED BY C. Proce	LOGGED BY T. Pitterle	Brooklyn, New York
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing / Jiri	GEOGRAPHIC AREA Empire Varnish	
DRILL BIT DIAMETER/TYPE 2-in. / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD 6610 / Geoprobe
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	SAMPLING METHOD 2" Macro-Core
		START-FINISH DATE 12/12/06-12/14/06
		BACKFILL Soil Cuttings

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Concrete.		0.0	
.....		Dark brown, fine to coarse SAND, some crushed metal and Gravel, trace Silt; dry.			Soil sample, SB-2/1-2, collected for VOCs, SVOCs, Metals, TPH and full list TCLP analyses.
5		Brown, fine to medium SAND, little Gravel; dry.			5
.....		Orange-brown, fine to medium SAND, little Gravel, trace Silt; dry.		0.0	
.....		Orange-brown, fine to medium SAND, little Gravel, trace Silt, trace Granite; dry.		0.0	
10		Orange-brown, fine to medium SAND, trace gravel; dry.			10
.....		Brown, fine to medium SAND, little gravel; dry.		0.5	
.....		Brown, fine to medium SAND, little Silt, trace Gravel; dry.		0.2	
15		Brown, fine to medium SAND, some Gravel; dry.		7.9	15
.....		Brown, fine to medium SAND, little Silt, trace Gravel; dry.		11.2	Soil staining and odors evident.
.....		Brown, coarse to fine SAND, little Gravel, trace Granite; dry.			
20		Dark brown, to black, fine to medium SAND, some Gravel, trace silt; dry.		17.9	20
.....		Black, fine to medium SAND, some Gravel, trace red Brick; dry.		48.1	Odors evident. Interval from 20 to 25 ft bls appears sooty and ashy.
25		Brown, fine to medium SAND; dry.		67.5	25
.....		Brown, fine to medium SAND; dry.		2.8	Soil sample, SB-2/27.5-30, collected for VOCs, SVOCs, Metals and TPH analyses.
30		Grayish brown, fine to medium SAND; wet.		327	30
.....		Grayish brown, fine to medium SAND; wet.		244	Soil staining and odors evident. Free product present.
35					Bottom of boring at 35 ft bls. 35

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SOIL BORING LOG

WELL NO. SB-3	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 17230Y17 / ExxonMobil - Greenpoint	LOCATION Greenpoint	
APPROVED BY C. Proce	LOGGED BY T. Pitterle	Brooklyn, New York
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing / Jiri	GEOGRAPHIC AREA Empire Varnish	
DRILL BIT DIAMETER/TYPE 2-in. / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD 6610 / Geoprobe
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	SAMPLING METHOD 2" Macro-Core
	BACKFILL Soil Cuttings	START-FINISH DATE 12/12/06-12/14/06

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
.....		Concrete.		1.6	
.....		Dark gray, fine to medium SAND, some Gravel, little red Brick, trace coal and glass; dry.			Soil sample, SB-3/1-2, collected for VOCs, SVOCs, metals, TPH and full list TCLP analyses.
.....		Brown, fine to medium SAND, little Gravel; dry.			
5		Light brown, fine to coarse SAND, some Gravel; dry to moist.		5.1	
.....		Gray, coarse to fine SAND, some Gravel; dry to moist.		62.7	
.....		Brown to gray, fine to coarse SAND, some Gravel; moist.		121	Soil staining and odors evident.
10		Brown, medium to coarse SAND, some Gravel; moist/dry.		140	
.....		Light Brown to tan, medium to coarse (+) SAND, some gravel; moist/dry.		6.1	
15		Light brown to tan, fine to medium (+) SAND; dry/moist.		16.4	
.....		Brown to tan, fine to medium SAND; dry/moist.		27.3	
20		Brown to light gray, fine to medium SAND, little Gravel; dry to moist.		52.4	
.....		Brownish-gray, fine to medium SAND; moist.		474	Soil sample, SB-3/27.5-30, collected for VOCs, SVOCs, Metals and TPH analyses. Soil staining and odors evident.
25		Brownish-gray, medium to coarse SAND; wet.		370	Soil staining and odors evident. Free product present.
30				235	
35					Bottom of boring at 35 ft bls.

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SOIL BORING LOG

WELL NO. SB-4	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 17230Y17 / ExxonMobil - Greenpoint	LOCATION Greenpoint	
APPROVED BY C. Proce	LOGGED BY C. Pitterle	Brooklyn, New York
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing / Jiri	GEOGRAPHIC AREA Empire Varnish	
DRILL BIT DIAMETER/TYPE 2-in. / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD 6610 / Geoprobe
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	SAMPLING METHOD 2" Macro-Core
	BACKFILL Soil Cuttings	START-FINISH DATE 12/11/06-12/15/06

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Concrete.		0.0	
		Dark brown, medium to fine SAND, some Gravel; dry.		0.0	Soil sample, SB-4/1-2, collected for VOCs, SVOCs, metals, TPH and full list TCLP analyses.
5		Dark brown, medium to fine SAND AND GRAVEL, some Quartz, trace red Brick; moist to dry.		0.0	
		Light brown to orange-brown, fine to medium SAND, little Gravel, trace organics; dry.		0.0	
10		Brown, fine to medium SAND, trace Gravel and red Brick; dry.		1.0	
		Dark brown to gray, fine to medium SAND, some Gravel, trace red Brick; moist.		0.0	
		Light brown, fine to medium SAND, little Gravel; moist.		0.0	
15		Lt gray to brown, medium to fine SAND, trace Gravel; wet.		0.0	Soil staining and odors evident.
		Dark brown, medium to fine SAND, some Gravel, little Silt; wet.		0.0	
		Gray, medium to coarse SAND, little Gravel, trace silt; wet.		0.0	Soil staining and odors evident.
20		Gray, fine to medium SAND; dry.		0.0	Soil sample, SB-4/20-22.5, collected for VOCs, SVOCs, metals and TPH analyses. Soil staining and odors evident.
		Gray, fine to medium SAND, little Gravel, trace Silt; moist.		0.0	
		Light gray to brown, fine to medium SAND; moist.		975	
		Light gray to brown, fine to medium SAND; wet.			Soil staining and odors evident. Free product present. Bottom of boring at 25 ft bls.
25					

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SOIL BORING LOG

WELL NO. SB-5	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 17230Y17 / ExxonMobil - Greenpoint	LOCATION Greenpoint	
APPROVED BY C. Proce	LOGGED BY T. Pitterle	Brooklyn, New York
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing / Jiri	GEOGRAPHIC AREA Empire Varnish	
DRILL BIT DIAMETER/TYPE 2-in. / Drive Sampler	BOREHOLE DIAMETER 2-inches	DRILLING EQUIPMENT/METHOD 6610 / Geoprobe
LAND SURFACE ELEVATION Not Measured	DEPTH TO WATER Not Measured	SAMPLING METHOD 2" Macro-Core
	BACKFILL Soil Cuttings	START-FINISH DATE 12/11/06-12/15/06

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Concrete.		0.0	
.....		Brown, fine SAND and SILT, some pebbles; dry.			Soil sample, SB-5/1-2, collected for VOCs, SVOCs, metals, TPH and full list TCLP analyses.
.....		Brown to orange brown, medium to fine SAND, some Gravel, little pink Quartz, trace Silt, trace red Brick; dry to moist.		0.0	
5					5
.....		Dark brown to dark gray, medium to fine SAND, some Gravel, little organics, trace silt, trace red Brick; dry to moist.		0.0	
.....		Brown to dark brown, medium to fine SAND, some Gravel, trace Silt; dry to moist.		0.0	
10					10
.....		Dark gray to black, fine to medium SAND, some Gravel; dry.		0.0	Soil sample, SB-5/12.5-15, collected for VOCs, SVOCs, metals and TPH analyses. Soil staining and odors evident.
.....		Dark gray to brown, fine to medium SAND, little Gravel, moist to wet.		0.0	
15					15
.....		Gray, SILTY SAND, some Gravel, trace Clay; wet.		0.0	Soil staining and odors evident. Free product evident.
.....					
.....					Bottom at boring at 20 ft bls.
20					20

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WELL CONSTRUCTION LOG

WELL NO. MW-90		NORTHING Not Measured		EASTING Not Measured	
PROJECT NO./NAME 17230Y17 / ExxonMobil - Greenpoint				LOCATION Greenpoint	
APPROVED BY C. Proce		LOGGED BY T. Bispham		Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing / Tony				GEOGRAPHIC AREA Western corner of Empire Varnish Yard	
DRILL BIT DIAMETER/TYPE 4-in. / Auger		BOREHOLE DIAMETER 4-inches		DRILLING EQUIPMENT/METHOD LC-55 / HSA	
CASING MAT./DIA. SCH 40 PVC / 4-inch		SCREEN: TYPE Slotted		SAMPLING METHOD 2" Split Spoon	
ELEVATION OF: (Feet)		GROUND SURFACE		START-FINISH DATE 12/12/06-12/19/06	
		TOP OF WELL CASING		TOTAL LENGTH 20.0ft	
		TOP & BOTTOM SCREEN /		DIA. 4-inch	
				SLOT SIZE 50-Slot	
				GRAVEL PACK SIZES Morie #3	

Depth, feet	Flushmount Well Cap	J-Plug	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5		Concrete		Dark Brown, fine to coarse SAND, trace crushed Metal, trace Gravel, trace Silt; dry.			Soil sample, MW-90/1-2, collected for VOCs, SVOCs, Metals, TPH, RCRA characteristics and full TCLP analyses.
10		Grout		Brown to dark brown, medium to fine SAND, little Gravel; trace ash material; dry.		17.9	
15		SCH-40 PVC Riser		Brown to dark brown, medium to fine SAND, some Gravel; trace wood; dry.		19.5	Odors evident.
20				Brown to dark brown, medium to fine SAND, trace Gravel; dry.		0.0	
25		Bentonite Seal		Brown, to dark brown, medium to fine SAND, some white chalky material, little Gravel; trace ash material; dry/moist.		0.0	
30				Brown to grayish brown, medium to fine SAND, trace Brick, trace ceramic Tile; dry/moist.		18.3	
35	GROUND WATER LEVEL 12/29/2006	#3 Morie Sand 50-Slot PVC Screen		Brown, medium to fine SAND, trace Silt; dry to wet.		39.8	
40				Brown, medium to fine SAND, trace Gravel; dry to moist.		32.8	
45				Brown, coarse to fine SAND, little Gravel; dry/moist.		124	
50				Brown, coarse to fine SAND, trace Gravel; dry/moist.		98.4	
55				Tan to Brown, medium to fine SAND, trace Gravel; dry/moist.		162	
60				Tan to Brown, medium to fine SAND; Dry/moist.		70.1	
65				Brown to black, medium to fine SAND; moist.		291	
70				Brown to gray, medium to fine SAND; wet.		1481	Soil sample, MW-90/29-31, collected for VOCs, SVOCs, metals and TPH analyses.
75				Brown to gray, coarse to fine SAND; wet.		773	
80				Brown to dark gray, coarse to fine SAND; wet.		448	Black staining and odors evident.
85				Gray to Brown, coarse to fine SAND; wet.		384	Product in split spoon. Odors evident.
90						238	Product in split spoon. Odors evident.
95						177	Dark gray soil staining. Odors evident.
100						207	
105						22.2	
110				Brown, coarse to fine SAND; wet.		0.0	
115						0.0	
120						0.0	
125				Brown, coarse to medium (-) SAND; wet.		0.0	
130				Brown, coarse to medium SAND; wet.		0.0	
135						5.3	
140				Brown, coarse to fine (-) SAND, some Gravel; wet.		0.0	
145				Brown, coarse to fine SAND, some Gravel; wet.		0.0	
150				No Recovery.			
155				Brown, coarse to fine SAND; wet.		0.0	
160						139	
165				Brown, coarse to fine SAND, little Gravel; wet.			

Bottom of boring at 67 ft bls.

BORING/FEET 17230Y17RW.GPJ ROUX.GDT 1/26/07



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WELL CONSTRUCTION LOG

WELL NO. MW-93	NORTHING Not Measured	EASTING Not Measured
PROJECT NO./NAME 17230Y17 / ExxonMobil - Greenpoint	LOCATION Greenpoint	
APPROVED BY C. Proce	LOGGED BY T. Bispham	Brooklyn, New York
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing / Tony	GEOGRAPHIC AREA Eastern corner of Empire Varnish Yard	
DRILL BIT DIAMETER/TYPE 4-in. / Auger	BOREHOLE DIAMETER 4-inches	DRILLING EQUIPMENT/METHOD LC-55 / HSA
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	SAMPLING METHOD 2" Split Spoon
ELEVATION OF: (Feet)		START-FINISH DATE 12/11/06-12/19/06
GROUND SURFACE		
TOP OF WELL CASING		
TOP & BOTTOM SCREEN		
GRAVEL PACK SIZES More #3		
Depth, feet	Visual Description	Blow Counts per 6"
Flushmount Well Cap	J-Plug	PID Values (ppm)
Concrete	Concrete and Gravel.	REMARKS
5	Dark brown, medium to fine SAND, some Gravel, trace Concrete. dry.	Hand-cleared to 5 ft bls.
10	Concrete and Gravel.	Soil sample, MW-93/1-2, collected for VOCs, SVOCs, Metals, TPH, RCRA characteristics, Full TCLP analyses.
15	Light brown, medium to fine SAND, little Gravel, trace Silt; dry.	
20	Brown to dark brown, coarse to fine SAND, trace Gravel, trace black ash material; moist.	
25	Brown, coarse to fine SAND, trace Mica, trace Gravel; moist.	
30	Brown, coarse to fine SAND, trace Gravel; moist.	
35	Brown, coarse to fine SAND, trace Gravel; moist to wet.	
40	Brown, coarse to fine SAND, trace Gravel; moist to wet.	
45	Brown, coarse to fine SAND, trace Gravel; wet.	
50	Brown, coarse to fine SAND, trace Gravel; wet.	
55	Brown, coarse to fine SAND, trace Gravel; wet.	
60	Brown, coarse to fine SAND, trace Gravel; wet.	
65	Brown, coarse to fine SAND, trace Gravel; wet.	
70	Brown, coarse to fine SAND, trace Gravel; wet.	
75	Brown, coarse to fine SAND, trace Gravel; wet.	
80	Brown, coarse to fine SAND, trace Gravel; wet.	
85	Brown, coarse to fine SAND, trace Gravel; wet.	
90	Brown, coarse to fine SAND, trace Gravel; wet.	
95	Brown, coarse to fine SAND, trace Gravel; wet.	
100	Brown, coarse to fine SAND, trace Gravel; wet.	
105	Brown, coarse to fine SAND, trace Gravel; wet.	
110	Brown, coarse to fine SAND, trace Gravel; wet.	
115	Brown, coarse to fine SAND, trace Gravel; wet.	
120	Brown, coarse to fine SAND, trace Gravel; wet.	
125	Brown, coarse to fine SAND, trace Gravel; wet.	
130	Brown, coarse to fine SAND, trace Gravel; wet.	
135	Brown, coarse to fine SAND, trace Gravel; wet.	
140	Brown, coarse to fine SAND, trace Gravel; wet.	
145	Brown, coarse to fine SAND, trace Gravel; wet.	
150	Brown, coarse to fine SAND, trace Gravel; wet.	
155	Brown, coarse to fine SAND, trace Gravel; wet.	
160	Brown, coarse to fine SAND, trace Gravel; wet.	
165	Brown, coarse to fine SAND, trace Gravel; wet.	
170	Brown, coarse to fine SAND, trace Gravel; wet.	
175	Brown, coarse to fine SAND, trace Gravel; wet.	
180	Brown, coarse to fine SAND, trace Gravel; wet.	
185	Brown, coarse to fine SAND, trace Gravel; wet.	
190	Brown, coarse to fine SAND, trace Gravel; wet.	
195	Brown, coarse to fine SAND, trace Gravel; wet.	
200	Brown, coarse to fine SAND, trace Gravel; wet.	
205	Brown, coarse to fine SAND, trace Gravel; wet.	
210	Brown, coarse to fine SAND, trace Gravel; wet.	
215	Brown, coarse to fine SAND, trace Gravel; wet.	
220	Brown, coarse to fine SAND, trace Gravel; wet.	
225	Brown, coarse to fine SAND, trace Gravel; wet.	
230	Brown, coarse to fine SAND, trace Gravel; wet.	
235	Brown, coarse to fine SAND, trace Gravel; wet.	
240	Brown, coarse to fine SAND, trace Gravel; wet.	
245	Brown, coarse to fine SAND, trace Gravel; wet.	
250	Brown, coarse to fine SAND, trace Gravel; wet.	
255	Brown, coarse to fine SAND, trace Gravel; wet.	
260	Brown, coarse to fine SAND, trace Gravel; wet.	
265	Brown, coarse to fine SAND, trace Gravel; wet.	
270	Brown, coarse to fine SAND, trace Gravel; wet.	
275	Brown, coarse to fine SAND, trace Gravel; wet.	
280	Brown, coarse to fine SAND, trace Gravel; wet.	
285	Brown, coarse to fine SAND, trace Gravel; wet.	
290	Brown, coarse to fine SAND, trace Gravel; wet.	
295	Brown, coarse to fine SAND, trace Gravel; wet.	
300	Brown, coarse to fine SAND, trace Gravel; wet.	
305	Brown, coarse to fine SAND, trace Gravel; wet.	
310	Brown, coarse to fine SAND, trace Gravel; wet.	
315	Brown, coarse to fine SAND, trace Gravel; wet.	
320	Brown, coarse to fine SAND, trace Gravel; wet.	
325	Brown, coarse to fine SAND, trace Gravel; wet.	
330	Brown, coarse to fine SAND, trace Gravel; wet.	
335	Brown, coarse to fine SAND, trace Gravel; wet.	
340	Brown, coarse to fine SAND, trace Gravel; wet.	
345	Brown, coarse to fine SAND, trace Gravel; wet.	
350	Brown, coarse to fine SAND, trace Gravel; wet.	
355	Brown, coarse to fine SAND, trace Gravel; wet.	
360	Brown, coarse to fine SAND, trace Gravel; wet.	
365	Brown, coarse to fine SAND, trace Gravel; wet.	
370	Brown, coarse to fine SAND, trace Gravel; wet.	
375	Brown, coarse to fine SAND, trace Gravel; wet.	
380	Brown, coarse to fine SAND, trace Gravel; wet.	
385	Brown, coarse to fine SAND, trace Gravel; wet.	
390	Brown, coarse to fine SAND, trace Gravel; wet.	
395	Brown, coarse to fine SAND, trace Gravel; wet.	
400	Brown, coarse to fine SAND, trace Gravel; wet.	
405	Brown, coarse to fine SAND, trace Gravel; wet.	
410	Brown, coarse to fine SAND, trace Gravel; wet.	
415	Brown, coarse to fine SAND, trace Gravel; wet.	
420	Brown, coarse to fine SAND, trace Gravel; wet.	
425	Brown, coarse to fine SAND, trace Gravel; wet.	
430	Brown, coarse to fine SAND, trace Gravel; wet.	
435	Brown, coarse to fine SAND, trace Gravel; wet.	
440	Brown, coarse to fine SAND, trace Gravel; wet.	
445	Brown, coarse to fine SAND, trace Gravel; wet.	
450	Brown, coarse to fine SAND, trace Gravel; wet.	
455	Brown, coarse to fine SAND, trace Gravel; wet.	
460	Brown, coarse to fine SAND, trace Gravel; wet.	
465	Brown, coarse to fine SAND, trace Gravel; wet.	
470	Brown, coarse to fine SAND, trace Gravel; wet.	
475	Brown, coarse to fine SAND, trace Gravel; wet.	
480	Brown, coarse to fine SAND, trace Gravel; wet.	
485	Brown, coarse to fine SAND, trace Gravel; wet.	
490	Brown, coarse to fine SAND, trace Gravel; wet.	
495	Brown, coarse to fine SAND, trace Gravel; wet.	
500	Brown, coarse to fine SAND, trace Gravel; wet.	
505	Brown, coarse to fine SAND, trace Gravel; wet.	
510	Brown, coarse to fine SAND, trace Gravel; wet.	
515	Brown, coarse to fine SAND, trace Gravel; wet.	
520	Brown, coarse to fine SAND, trace Gravel; wet.	
525	Brown, coarse to fine SAND, trace Gravel; wet.	
530	Brown, coarse to fine SAND, trace Gravel; wet.	
535	Brown, coarse to fine SAND, trace Gravel; wet.	
540	Brown, coarse to fine SAND, trace Gravel; wet.	
545	Brown, coarse to fine SAND, trace Gravel; wet.	
550	Brown, coarse to fine SAND, trace Gravel; wet.	
555	Brown, coarse to fine SAND, trace Gravel; wet.	
560	Brown, coarse to fine SAND, trace Gravel; wet.	
565	Brown, coarse to fine SAND, trace Gravel; wet.	
570	Brown, coarse to fine SAND, trace Gravel; wet.	
575	Brown, coarse to fine SAND, trace Gravel; wet.	
580	Brown, coarse to fine SAND, trace Gravel; wet.	
585	Brown, coarse to fine SAND, trace Gravel; wet.	
590	Brown, coarse to fine SAND, trace Gravel; wet.	
595	Brown, coarse to fine SAND, trace Gravel; wet.	
600	Brown, coarse to fine SAND, trace Gravel; wet.	
605	Brown, coarse to fine SAND, trace Gravel; wet.	
610	Brown, coarse to fine SAND, trace Gravel; wet.	
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620	Brown, coarse to fine SAND, trace Gravel; wet.	
625	Brown, coarse to fine SAND, trace Gravel; wet.	
630	Brown, coarse to fine SAND, trace Gravel; wet.	
635	Brown, coarse to fine SAND, trace Gravel; wet.	
640	Brown, coarse to fine SAND, trace Gravel; wet.	
645	Brown, coarse to fine SAND, trace Gravel; wet.	
650	Brown, coarse to fine SAND, trace Gravel; wet.	
655	Brown, coarse to fine SAND, trace Gravel; wet.	
660	Brown, coarse to fine SAND, trace Gravel; wet.	
665	Brown, coarse to fine SAND, trace Gravel; wet.	
670	Brown, coarse to fine SAND, trace Gravel; wet.	
675	Brown, coarse to fine SAND, trace Gravel; wet.	
680	Brown, coarse to fine SAND, trace Gravel; wet.	
685	Brown, coarse to fine SAND, trace Gravel; wet.	
690	Brown, coarse to fine SAND, trace Gravel; wet.	
695	Brown, coarse to fine SAND, trace Gravel; wet.	
700	Brown, coarse to fine SAND, trace Gravel; wet.	
705	Brown, coarse to fine SAND, trace Gravel; wet.	
710	Brown, coarse to fine SAND, trace Gravel; wet.	
715	Brown, coarse to fine SAND, trace Gravel; wet.	
720	Brown, coarse to fine SAND, trace Gravel; wet.	
725	Brown, coarse to fine SAND, trace Gravel; wet.	
730	Brown, coarse to fine SAND, trace Gravel; wet.	
735	Brown, coarse to fine SAND, trace Gravel; wet.	
740	Brown, coarse to fine SAND, trace Gravel; wet.	
745	Brown, coarse to fine SAND, trace Gravel; wet.	
750	Brown, coarse to fine SAND, trace Gravel; wet.	
755	Brown, coarse to fine SAND, trace Gravel; wet.	
760	Brown, coarse to fine SAND, trace Gravel; wet.	
765	Brown, coarse to fine SAND, trace Gravel; wet.	
770	Brown, coarse to fine SAND, trace Gravel; wet.	
775	Brown, coarse to fine SAND, trace Gravel; wet.	
780	Brown, coarse to fine SAND, trace Gravel; wet.	
785	Brown, coarse to fine SAND, trace Gravel; wet.	
790	Brown, coarse to fine SAND, trace Gravel; wet.	
795	Brown, coarse to fine SAND, trace Gravel; wet.	
800	Brown, coarse to fine SAND, trace Gravel; wet.	
805	Brown, coarse to fine SAND, trace Gravel; wet.	
810	Brown, coarse to fine SAND, trace Gravel; wet.	
815	Brown, coarse to fine SAND, trace Gravel; wet.	
820	Brown, coarse to fine SAND, trace Gravel; wet.	
825	Brown, coarse to fine SAND, trace Gravel; wet.	
830	Brown, coarse to fine SAND, trace Gravel; wet.	
835	Brown, coarse to fine SAND, trace Gravel; wet.	
840	Brown, coarse to fine SAND, trace Gravel; wet.	
845	Brown, coarse to fine SAND, trace Gravel; wet.	
850	Brown, coarse to fine SAND, trace Gravel; wet.	
855	Brown, coarse to fine SAND, trace Gravel; wet.	
860	Brown, coarse to fine SAND, trace Gravel; wet.	
865	Brown, coarse to fine SAND, trace Gravel; wet.	
870	Brown, coarse to fine SAND, trace Gravel; wet.	
875	Brown, coarse to fine SAND, trace Gravel; wet.	
880	Brown, coarse to fine SAND, trace Gravel; wet.	
885	Brown, coarse to fine SAND, trace Gravel; wet.	
890	Brown, coarse to fine SAND, trace Gravel; wet.	
895	Brown, coarse to fine SAND, trace Gravel; wet.	
900	Brown, coarse to fine SAND, trace Gravel; wet.	
905	Brown, coarse to fine SAND, trace Gravel; wet.	
910	Brown, coarse to fine SAND, trace Gravel; wet.	
915	Brown, coarse to fine SAND, trace Gravel; wet.	
920	Brown, coarse to fine SAND, trace Gravel; wet.	
925	Brown, coarse to fine SAND, trace Gravel; wet.	
930	Brown, coarse to fine SAND, trace Gravel; wet.	
935	Brown, coarse to fine SAND, trace Gravel; wet.	
940	Brown, coarse to fine SAND, trace Gravel; wet.	
945	Brown, coarse to fine SAND, trace Gravel; wet.	
950	Brown, coarse to fine SAND, trace Gravel; wet.	
955	Brown, coarse to fine SAND, trace Gravel; wet.	
960	Brown, coarse to fine SAND, trace Gravel; wet.	
965	Brown, coarse to fine SAND, trace Gravel; wet.	
970	Brown, coarse to fine SAND, trace Gravel; wet.	
975	Brown, coarse to fine SAND, trace Gravel; wet.	
980	Brown, coarse to fine SAND, trace Gravel; wet.	
985	Brown, coarse to fine SAND, trace Gravel; wet.	
990	Brown, coarse to fine SAND, trace Gravel; wet.	
995	Brown, coarse to fine SAND, trace Gravel; wet.	
1000	Brown, coarse to fine SAND, trace Gravel; wet.	

BORING/FEET 17230Y17RW.GPJ ROUX.GDT 1/26/07



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WELL CONSTRUCTION LOG

WELL NO. MW-94		NORTHING Not Measured		EASTING Not Measured	
PROJECT NO./NAME 17230Y17 / ExxonMobil - Greenpoint				LOCATION Greenpoint	
APPROVED BY C. Proce		LOGGED BY T. Bispham		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing / Tony				GEOGRAPHIC AREA Empire Varnish - North Yard	
DRILL BIT DIAMETER/TYPE 4-in. / Auger	BOREHOLE DIAMETER 4-inches	DRILLING EQUIPMENT/METHOD LC-55 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 12/11/06-12/21/06	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC TOTAL LENGTH 15.0ft		DIA. 4-inch	SLOT SIZE 50-Slot
ELEVATION OF: (Feet)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GRAVEL PACK SIZES More #3	

Depth, feet	Flushmount Well Cap	J-Plug	Graphic Log	Visual Description	Blow Counts per 5"	PID Values (ppm)	REMARKS
0				Concrete.			Handcleared to 8 ft bls.
5				Concrete. Brown, fine to medium SAND, some Gravel; dry.			
5				Concrete. Brown, fine to medium SAND, little Gravel; dry.			
10				Brown, coarse to fine SAND, some Gravel, little Brick, trace Silt; dry to moist.	2	4.6	
10				Black, ash material, little brown, medium to fine Sand; dry to moist.	2	21.3	
15				No recovery.	1	227	
15				Brown, coarse to fine SAND; moist.	1		
15				Gray SILT, trace Clay; moist.	1		
15				Light brown, coarse to fine SAND, trace Gravel; moist.	2	82.1	Gray staining and odors evident.
20				Brown to gray, coarse to fine SAND, some Gravel, trace Silt; wet.			
20				No Recovery.	1		
20				Brown to black, coarse to fine SAND, trace Silt; wet.	1		
20				Brown, coarse to fine SAND, little Silt, trace Gravel; wet.	2	165	Black staining and odors evident.
25				Brown to gray, coarse to fine SAND, little Silt, little Gravel, trace Clay; wet.	2	194	Gray staining and odors evident.
25				Brown, coarse to fine SAND, trace Silt, trace Gravel; wet.	3	37.8	
25				Brownish-gray, fine to medium SAND, some Gravel, little red Brick; wet.	4	32.6	
25				Brownish-gray, Silty CLAY; wet.			
25				Brownish-gray, fine to medium SAND and SILT, little Gravel; wet.		1248	
25				Brownish-gray, fine to medium SAND, some Silt, trace Gravel; wet.			
25				Gray to black, fine to coarse SAND, some Gravel; wet.			Bottom of Boring at 29 ft bls.

BORING/FEET 17230Y17RW.GPJ ROUX.GDT 1/26/07



CA RICH Consultants, Inc.

17 Dupont Street, Plainview, New York 11803

Boring Number GP-1

BORING LOG

Project Name Empire State Varnish		Site 38 Varick Street		Date: 5/9/2007	
Drilling Company Eastern Environmental Solutions, Inc.		Foreman Josh		Sampler(s) Victoria Whelan	
Drilling Equipment 6610DT Track Geoprobe		Method Direct Push		Sampler Hammer NA	
Bit Size(s) 5-Foot		Core Barrel(s) 2 1/4 -inch		Completion Depth 10 feet	
				Rock Depth NA	
				Geologist(s) Victoria Whelan	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
LOCATION: GP-1					SURFACE DESCRIPTION: Concrete	
0	N/A			N/A	Poor recovery	In loading area
1					Poor recovery	
2	N/A			N/A	Poor recovery	
3					Poor recovery	
4	N/A	Full	0.0	N/A	Medium grain, minor small pebbles, light brown sands	
5		Full	0.0		Medium grain, minor small pebbles, light brown sands	Sample: GP-1 (3-4 ft.) collected at 9:30 a.m. PID = 0.0
6	N/A	Full	0.0	N/A	Medium grain, minor small pebbles, light brown sands	
7		Full	0.0		Medium grain, minor small pebbles, light brown sands	
8	N/A	Full	0.0	N/A	Medium grain, minor small pebbles, light brown sands	
9		Full	0.0		Medium grain, minor small pebbles, light brown sands	
10	N/A			N/A	Poor Recovery	
11					Poor Recovery	
12	N/A			N/A	Poor Recovery	
13					Poor Recovery	
14	N/A	Full	0.0	N/A	Medium grain, light brown even sands	
15		Full	0.0		Medium grain, light brown even sands	GP-1 (7.5-8ft.) collected at 9:30 a.m. Sample placed on hold, not submitted PID = 0.0
16	N/A	Full	0.0	N/A	Medium grain, light brown even sands	
17		Full	0.0		Medium grain, light brown even sands	
18	N/A	Full	0.0	N/A	Medium grain, light brown even sands	
19		Full	0.0		Medium grain, light brown even sands	
20	N/A		0.0	N/A	Medium grain, light brown even sands	

Page 1 of 1

Signature: _____

Date: 5/9/2007



CA RICH Consultants, Inc.

17 Dupont Street, Plainview, New York 11803

Boring Number GP-2

BORING LOG

Project Name Empire State Varnish		Site 38 Varick Street		Date: 5/9/2007	
Drilling Company Eastern Environmental Solutions, Inc.		Foreman Josh		Sampler(s) Victoria Whelan	
Drilling Equipment 6610DT Track Geoprobe		Method Direct Push		Sampler Hammer NA	
Bit Size(s) 5-Feet		Core Barrel(s) 2 1/4 -inch		Completion Depth 10 feet	
				Geologist(s) Victoria Whelan	
DEPTH		SAMPLES		SOIL DESCRIPTION	
(ft below grade)	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts	REMARKS
LOCATION: GP-2		SURFACE DESCRIPTION: Concrete			In mixing room Background PID =.2
0	N/A			N/A	Background FID: 1.1
					Poor recovery
1					Poor recovery
	N/A			N/A	
					Poor recovery
2					Poor recovery
	N/A	Full	0.0	N/A	Dark brown to black fill
		Full	0.0		Dark brown to black fill
3					
	N/A	Full	1.7	N/A	2 in. thick dark black fill, high on PID of 1.7
		Full	0.0		Sample: GP-2 (3-4 ft.) collected at 10:15 a.m. PID = 0.0
4					Fill, concrete, brick, pebbles, asphalt
	N/A	Full	0.0	N/A	Fill, concrete, brick, pebbles, asphalt
		Full	0.0		Sampled was duplicated, GP-X (3-4ft.)
5					Fill, concrete, brick, pebbles, asphalt
	N/A			N/A	Poor Recovery
					Poor Recovery
6					Poor Recovery
	N/A			N/A	
					Poor Recovery
7					Poor Recovery
	N/A	Full	0.0	N/A	Medium grain, light brown even sands
		Full	0.0		
8					Medium grain, light brown even sands
	N/A	Full	0.0	N/A	Sample placed on hold, not submitted PID = 0.0
		Full	0.0		GP-2 (8ft.) collected at 10:25 a.m.
9					Medium grain, light brown even sands
	N/A	Full	0.0	N/A	Medium grain, light brown even sands
		Full	0.0		
10					Medium grain, light brown even sands
	N/A		0.0	N/A	

Page 1 of 1

Signature:

Date:

5/9/2007



CA RICH Consultants, Inc.

17 Dupont Street, Plainview, New York 11803

Boring Number GP-3

BORING LOG

Project Name Empire State Varnish		Site 38 Varick Street		Date: 5/9/2007	
Drilling Company Eastern Environmental Solutions, Inc.		Foreman Josh		Sampler(s) Victoria Whelan	Sampler Hammer NA
Drilling Equipment 6610DT Track Geoprobe		Method Direct Push		Elevation & Datum NA	Completion Depth 10 feet
Bit Size(s) 5-Feet		Core Barrel(s) 2 1/4 -inch		Geologist(s) Victoria Whelan	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
LOCATION: GP-3					SURFACE DESCRIPTION: Concrete	Outside of cook house
0	N/A			N/A	Poor recovery	
1	N/A			N/A	Poor recovery	
2	N/A			N/A	Poor recovery	
3	N/A	Full	0.0		Medium grain, light brown sand	Sample: GP-3 (2.5-3 ft.) collected at 10:45 a.m. PID = 0.0
4	N/A	Full	0.0	N/A	Medium grain, light brown sand	
5	N/A	Full	0.0	N/A	Medium grain, light brown sand	
6	N/A	Full	0.0	N/A	Medium grain, light brown sand	
7	N/A	Full	0.0	N/A	Medium grain, light brown even sands	
8	N/A	Full	0.0	N/A	Medium grain, light brown even sands	GP-3 (8ft.) collected at 10:50 a.m. Sample placed on hold, not submitted PID = 0.0
9	N/A	Full	0.0	N/A	Medium grain, light brown even sands	
10	N/A	Full	0.0	N/A	Medium grain, light brown even sands	

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Signature: 

Date: 5/9/2007



CA RICH Consultants, Inc.

17 Dupont Street, Plainview, New York 11803

Boring Number GP-4

BORING LOG

Project Name Empire State Varnish		Site 38 Varick Street		Date: 5/9/2007	
Drilling Company Eastern Environmental Solutions, Inc.		Foreman Josh		Sampler(s) Victoria Whelan	Sampler Hammer NA
Drilling Equipment 6610DT Track Geoprobe		Method Direct Push		Elevation & Datum NA	Completion Depth 10 feet
Bit Size(s) 5-Feet		Core Barrel(s) 2 1/4 -inch		Geologist(s) Victoria Whelan	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
0	LOCATION: GP-4				SURFACE DESCRIPTION: Concrete	Paint Manufacturing Room
	N/A			N/A	Poor recovery	
1					Poor recovery	
	N/A			N/A	Poor recovery	
					Poor recovery	
2					Poor recovery	
	N/A			N/A	Asphalt, white concrete	
		Full			Medium grain, light brown sand	
3	N/A	Full	0.0	N/A	Medium grain, light brown sand	
		Full	0.0		Medium grain, light brown sand	
		Full	0.0		Medium grain, light brown sand	
4	N/A	Full	0.0	N/A	Medium grain, light brown sand	Sample: GP-4 (4.5 ft.) collected at 11:10 a.m. PID = 0.0
		Full	0.0		Medium grain, light brown sand	
5		Full	0.0		Medium grain, light brown sand	
	N/A	Full	1.0	N/A	Medium grain, light tan/brown sands	
		Full	1.7		Medium grain, light tan/brown sands	
6	N/A	Full		N/A	Medium grain, light tan/brown sands	
		Full			Medium grain, light tan/brown sands	
7		Full			Medium grain, light tan/brown sands	
	N/A	Full	0.0	N/A	Medium grain, light tan/brown sands	
		Full			Medium grain, light tan/brown sands	
8		Full	1.5		Medium grain, light tan/brown sands	
	N/A	Full	3.0	N/A	Thin clay layer approximately 1in. Thick	GP-4 (8ft.) collected at 11:15 a.m. PID = 50.7
		Full	30.0		Medium grain, light brown, tan sands	
9	N/A	Full	41.3	N/A	Medium grain, light brown, tan sands	
		Full			Medium grain, light brown, tan sands	
10	N/A		50.7	N/A	Medium grain, light brown, tan sands	

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Signature: 

Date: 5/9/2007



CA RICH Consultants, Inc.

17 Dupont Street, Plainview, New York 11803

Boring Number GP-5

BORING LOG

Project Name Empire State Varnish		Site 38 Varick Street		Date: 5/9/2007	
Drilling Company Eastern Environmental Solutions, Inc.		Foreman Josh		Sampler(s) Victoria Whelan	Sampler Hammer NA
Drilling Equipment 6610DT Track Geoprobe		Method Direct Push		Elevation & Datum NA	Completion Depth 10 feet
Bit Size(s) 5-Feet		Core Barrel(s) 2 1/4 -inch		Geologist(s) Victoria Whelan	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
LOCATION: GP-5					SURFACE DESCRIPTION: Concrete	Storage Room
0	N/A			N/A	Poor recovery	
1					Poor recovery	
2	N/A			N/A	Poor recovery	
3					Poor recovery	
4	N/A			N/A	Asphalt, white concrete	
5		Full	0.0		Asphalt, white concrete	
6	N/A	Full	0.0	N/A	Medium grain sand, brown	
7		Full	0.0		Medium grain sand, brown	
8	N/A	Full	0.0	N/A	Medium grain sand, brown	Sample: GP-5 (4.5 ft.) collected at 11:30 a.m. PID = 0.0
9		Full	0.2		Medium grain sand, brown	
10	N/A		0.0	N/A	Poor recovery	
11			0.0		Poor recovery	
12	N/A	Full		N/A	Medium grain light brown sand	
13		Full			Medium grain light brown sand	
14	N/A	Full	0.0	N/A	Medium grain light brown sand	
15		Full	0.0		Medium grain light brown sand	
16	N/A	Full	0.0	N/A	Medium grain light brown sand	
17		Full	0.0		Medium grain light brown sand	
18	N/A	Full	0.0	N/A	Medium grain light brown sand	Sample placed on hold, not submitted
19		Full	0.0		Medium grain light brown sand	GP-5 (10ft.) collected at 11:45 a.m. PID = 0.0
20	N/A		0.0	N/A		

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Signature: [Signature]

Date: 5/9/2007



CA RICH Consultants, Inc.

17 Dupont Street, Plainview, New York 11803

Boring Number GP-6

BORING LOG

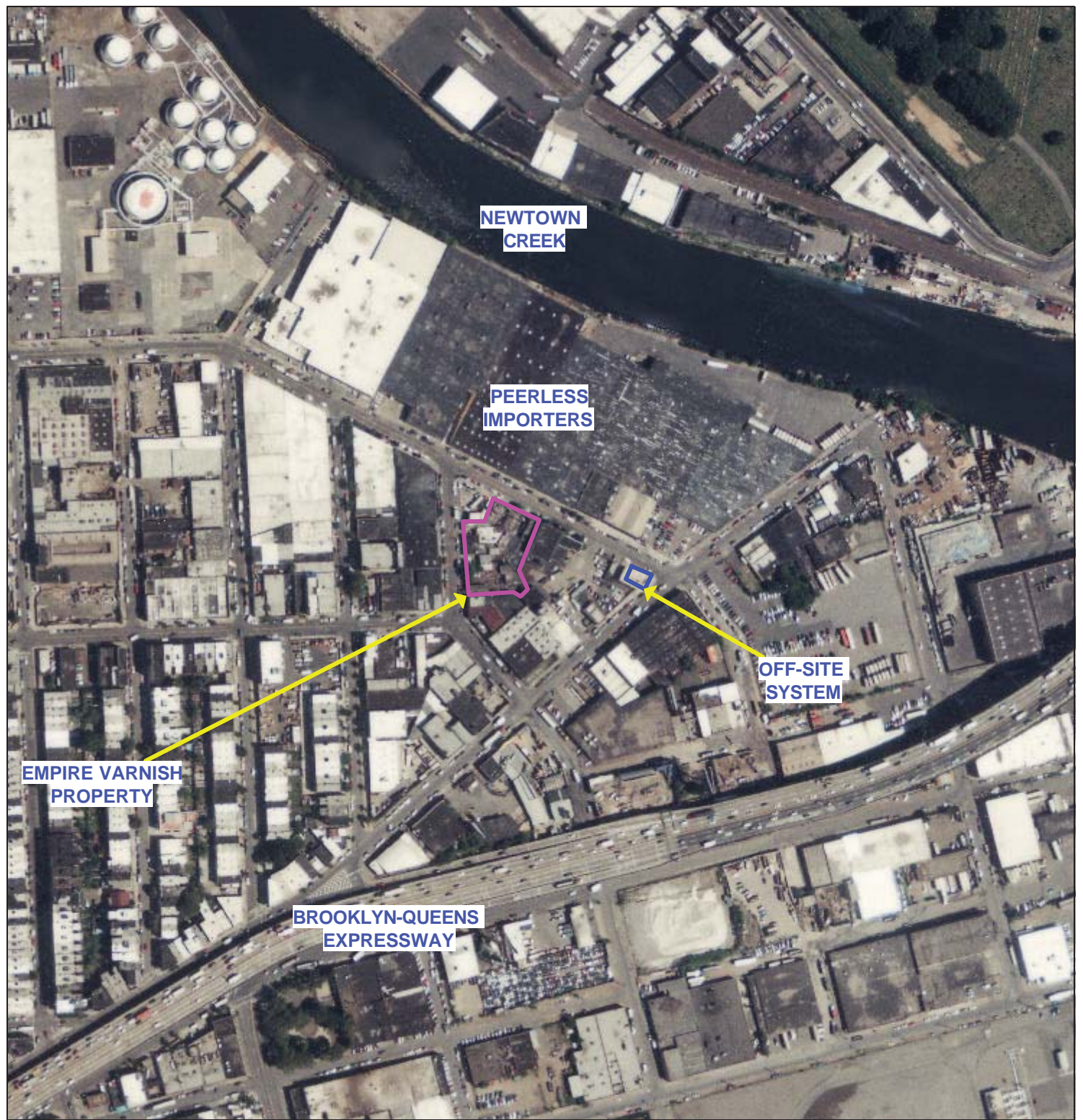
Project Name Empire State Varnish		Site 38 Varick Street		Date: 5/9/2007	
Drilling Company Eastern Environmental Solutions, Inc.		Foreman Josh		Sampler(s) Victoria Whelan	
Drilling Equipment 6610DT Track Geoprobe		Method Direct Push		Sampler Hammer NA	
Bit Size(s) 5-Feet		Core Barrel(s) 2 1/4 -inch		Elevation & Datum NA	
				Completion Depth 10 feet	
				Rock Depth NA	
				Geologist(s) Victoria Whelan	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
0	LOCATION: GP6				SURFACE DESCRIPTION: Concrete	Storage Room B
	N/A			N/A	Poor recovery	
1					Poor recovery	
	N/A			N/A	Poor recovery	
					Poor recovery	
2	N/A			N/A	Asphalt, white concrete	
		Full	0.0		Medium grain, light brown sand	
3	N/A	Full	0.0	N/A	Medium grain, light brown sand	
		Full	0.0		Medium grain, light brown sand	
4	N/A	Full	0.0	N/A	Medium grain, light brown sand	
		Full	0.0		Medium grain, light brown sand	
5	N/A	Full	1.0	N/A	Medium grain, light tan/brown sands	Sample: GP-6 (4-5 ft.) collected at 11:55 a.m. PID = 0.0
		Full	1.7		Medium grain, light tan/brown sands	
6	N/A	Full		N/A	Medium grain, light tan/brown sands	
		Full			Medium grain, light tan/brown sands	
7	N/A	Full	37.0	N/A	Medium grain, light tan/brown sands	
		Full	35.0		Medium grain, light tan/brown sands	
8	N/A	Full	30.0	N/A	Thin clay layer approximately 1in. Thick	
		Full	30.0		Medium grain, light brown, tan sands	
9	N/A	Full	50.0	N/A	Medium grain, light brown, tan sands	
		Full	86.4	N/A	Medium grain, light brown, tan sands	GP-6 (10ft.) collected at 12:00 a.m. PID = 86.4
10	N/A					

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Signature: 

Date: 5/9/2007



EXPLANATION

 EMPIRE VARNISH PROPERTY



Title:

SITE PLAN

**GREENPOINT
BROOKLYN, NEW YORK**

EMPIRE PROPERTY INVESTIGATION
GREENPOINT, BROOKLYN, NEW YORK

Prepared For:

**EXXONMOBIL REFINING & SUPPLY CO.
INWOOD, NEW YORK**



ROUX ASSOCIATES INC.
Environmental Consulting
& Management

Compiled by: C.P.

Date: 30JAN07

FIGURE

Prepared by: C.P.

Scale: NOT TO SCALE

1

Project Mgr: J.P.K.

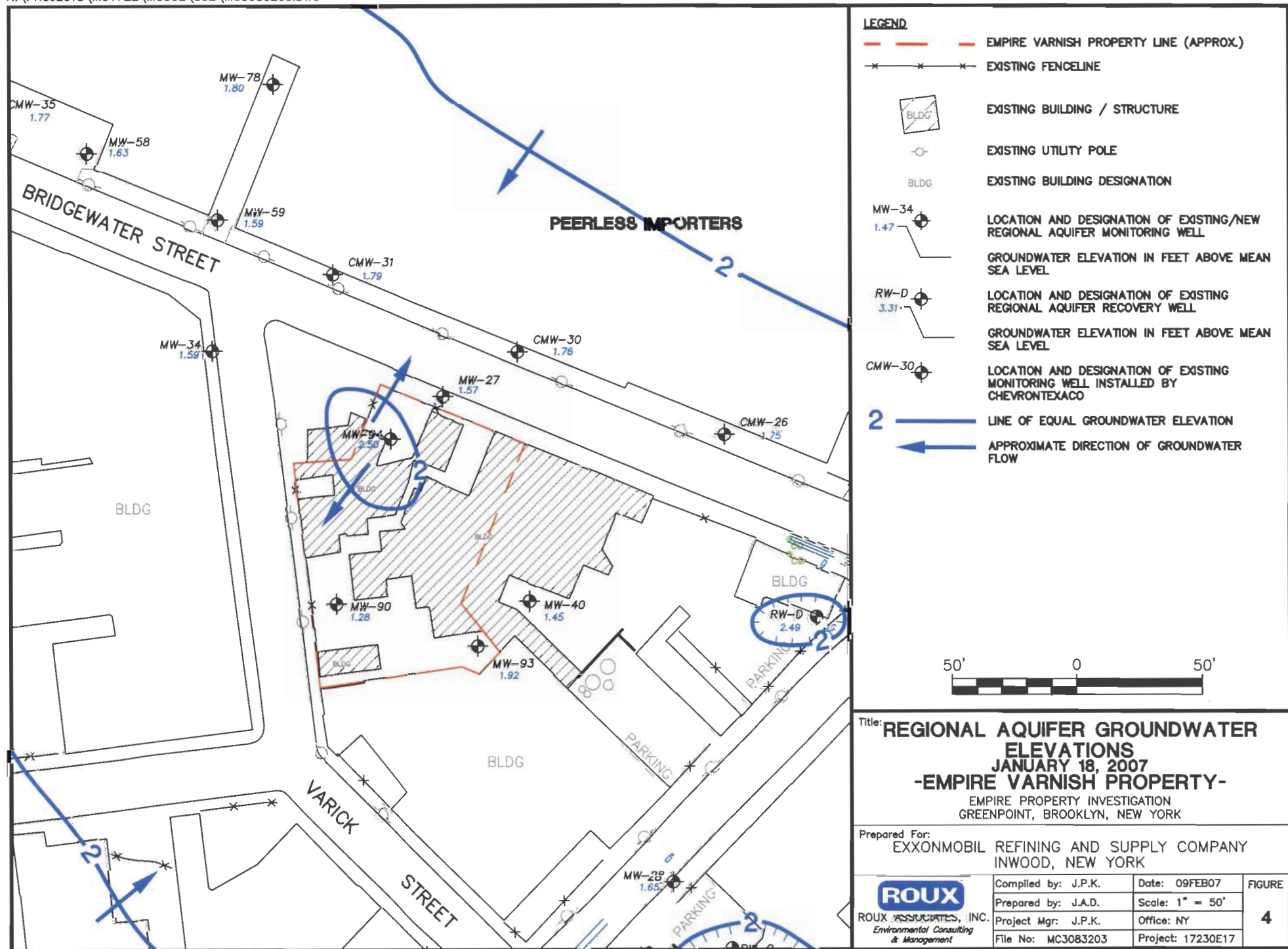
Office: NEW YORK

File No: MC3083204

Project: 17000000

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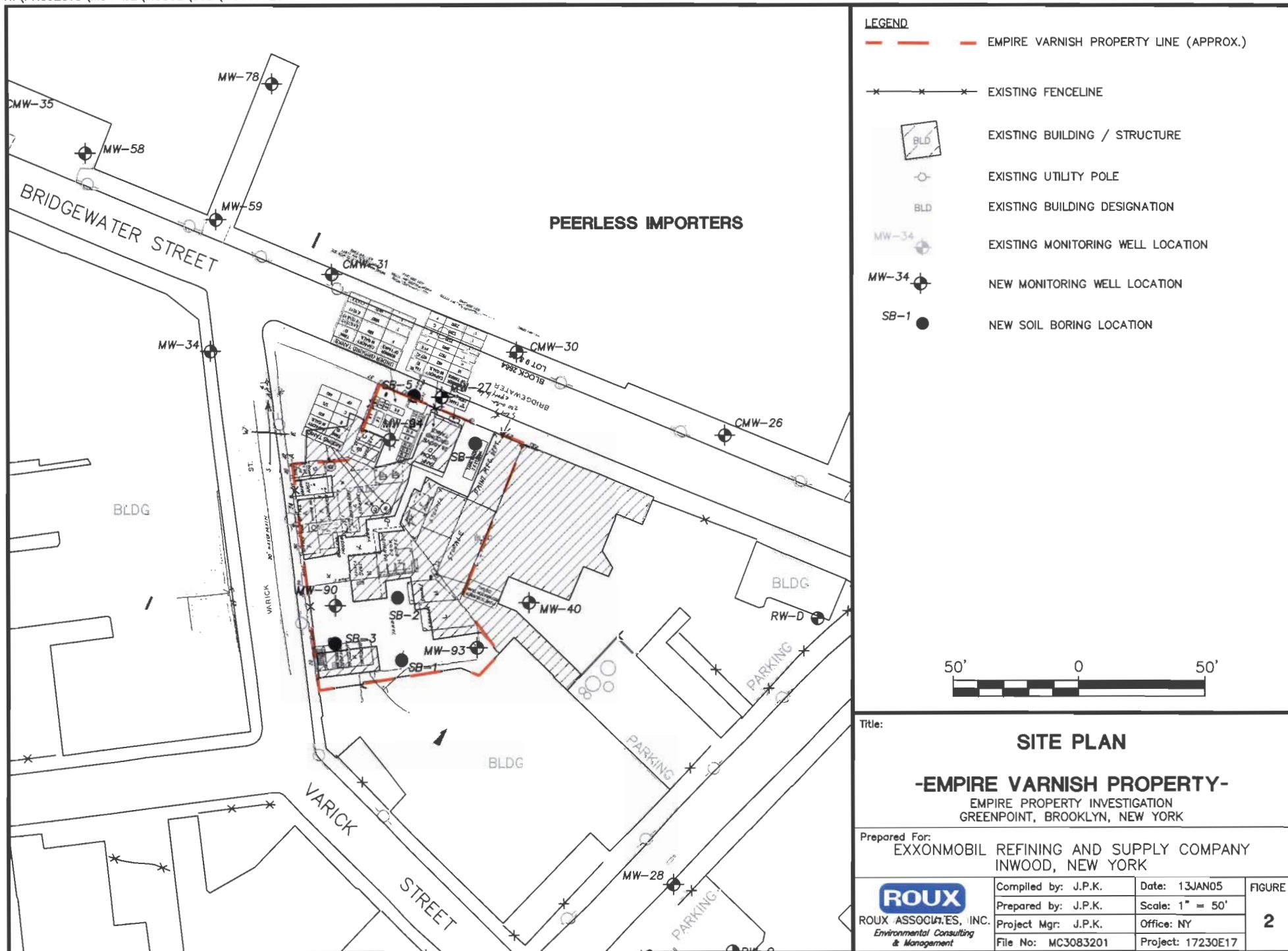


Table 1
Analytical Results for Volatile Organic Compounds in Soil
Empire State Varnish
38 Varick Street, Brooklyn, New York

Sample ID Depth in Feet Date Sampled	GP-1 (3-4) 5/10/2007	GP-2 (3-4) 5/10/2007	GP-X (3-4) 5/10/2007	GP-3 (2,5-3) 5/10/2007	GP-4 4.5 5/10/2007	GP-4 10 5/10/2007	GP-5 (4-5) 5/10/2007	GP-6 (4-5) 5/10/2007	GP-6 10 5/10/2007	NYSDEC Restricted- Commercial Part 375
Volatile Organic Compounds										
Units	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Dichlorodifluoromethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Chloromethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Vinyl Chloride	5U	5U	5U	5U	5U	5U	5U	5U	6U	13,000
Bromomethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Chloroethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Trichlorofluoromethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
1,1-Dichloroethane	5U	5U	5U	5U	2J	5U	5U	5U	6U	240,000
Acetone	5U	5U	5U	5U	5U	13	5U	5U	15	500,000
Carbon Disulfide	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Methylene Chloride	5U	5U	5U	5U	5U	5U	5U	5U	6U	500,000
trans-1,2-Dichloroethene	5U	5U	5U	5U	5U	5U	5U	5U	6U	500,000
Methyl tert-butyl ether	5U	5U	5U	5U	5U	5U	5U	5U	2J	500,000
1,1-Dichloroethene	5U	5U	5U	5U	5U	5U	5U	5U	6U	500,000
2- Butanone	5U	5U	5U	5U	5U	5U	5U	5U	6U	500,000
cis-1,2-Dichloroethene	5U	5U	5U	5U	5U	5U	5U	5U	6U	500,000
Chloroform	5U	5U	5U	1J	5U	5U	5U	5U	6U	350,000
1,1,1-Trichloroethane	5U	6	7	9	5U	5U	5U	5U	6U	500,000
Carbon Tetrachloride	5U	5U	5U	5U	5U	5U	5U	5U	6U	22,000
1,2-Dichloroethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	30,000
Benzene	5U	5U	5U	5U	5U	5U	5U	5U	6J	44,000
Trichloroethene	5U	5U	5U	5U	5U	5U	5U	5U	6U	200,000
1,2-Dichloropropane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Bromodichloromethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
cis-1,3-Dichloropropene	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
4-Methyl-2-pentanone	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Toluene	5U	5U	5U	5U	5U	5U	5U	5U	7	500,000
trans-1,3-Dichloroproene	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
1,1,2-Trichloroethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Tetrachloroethene	5U	5U	5U	5U	5U	5U	5U	5U	6U	150,000
2-Hexanone	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Dibromochloromethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
1,2-Dibromoethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Chlorobenzene	5U	5U	5U	5U	5U	5U	5U	5U	6U	500,000
Ethylbenzene	5U	5U	5U	5U	5U	5U	5U	5U	1J	390,000
Xylene (Total)	5U	5U	5U	5U	5U	5U	5U	5U	16	500,000
Styrene	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Bromoform	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Isopropylbenzene	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
1,1,2,2-Tetrachloroethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
1,3,5-Trimethylbenzene	5U	5U	5U	5U	5U	5U	5U	5U	2J	190,000
1,2,4-Trimethylbenzene	5U	5U	5U	5U	5U	5U	5U	5U	5J	190,000
1,3-Dichlorobenzene	5U	5U	5U	5U	5U	5U	5U	5U	6U	280,000
1,4-Dichlorobenzene	5U	5U	5U	5U	5U	5U	5U	5U	6U	130,000
1,2-Dichlorobenzene	5U	5U	5U	5U	5U	5U	5U	5U	6U	500,000
1,2-Dibromo-3-chloropropane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
1,2,4-Trichlorobenzene	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
1,1,2-Trichlo-1,2,2-trifluor	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Methyl Acetate	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Cyclohexane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Methylcyclohexane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG

Notes:

J- Detection under laboratory detection limits

U- Not detected at or above laboratory detection limits.

NVG - No Value Given.

*GP-X (3-4) is a duplicate of GP-2 (3-4)

Detections shown in bold

Table 2

Analytical Results for Semi-Volatile Organic Compounds in Soil

Empire State Varnish
38 Varick Street, Brooklyn, New York

Sample ID Depth in Feet Date Sampled	GP-1 (3-4) 5/10/2007	GP-2 (3-4) 5/10/2007	GP-X* (3-4) 5/10/2007	GP-3 (2,5-3) 5/10/2007	GP-4 4.5 5/10/2007	GP-4 10 5/10/2007	GP-5 (4-5) 5/10/2007	GP-6 (4-5) 5/10/2007	GP-6 10 5/10/2007	NYSDEC Restricted- Commercial Part 375
Semi-Volatile Organic Compounds										UG/KG
Units	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Phenol	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	500,000
bis(2-Chloroethyl)Ether	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
2-Chlorophenol	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
2-Methylphenol	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	500,000
2,2'-oxybis(1-Chloropropane)	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
4-Methylphenol	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
N-Nitroso-di-n-propylamine	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Hexachloroethane	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Nitrobenzene	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Isophorone	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
2-Nitrophenol	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
2,4-Dimethylphenol	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
2,4-Dichlorophenol	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
1,2,4-Trichlorobenzene	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Naphthalene	370 U	106 J	68.7 J	320 U	354 U	360 U	348 U	350 U	411 U	500,000
4-Chloroaniline	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Hexachlorobutadiene	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
bis(2-Chloroethoxy)methane	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
4-Chloro-3-Methylphenol	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
2-Methylnaphthalene	370 U	53.4 J	90.0 J	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Hexachlorocyclopentadiene	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
2,4,6-Trichlorophenol	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
2,4,5-Trichlorophenol	760 U	762 U	765 U	680 U	718 U	731 U	706 U	700 U	835 U	NVG
2-Chloronaphthalene	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
2-Nitroaniline	760 U	762 U	765 U	680 U	718 U	731 U	706 U	700 U	835 U	NVG
Dimethylphthalate	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Acenaphthylene	370 U	82.3 J	89.5 J	320 U	354 U	360 U	348 U	350 U	411 U	500,000
2,6-Dinitrotoluene	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
3-Nitroaniline	760 U	762 U	765 U	680 U	718 U	731 U	706 U	700 U	835 U	NVG
Acenaphthene	370 U	189 J	89.3 J	320 U	354 U	360 U	348 U	350 U	411 U	500,000
2,4-Dinitrophenol	760 U	762 U	765 U	680 U	718 U	731 U	706 U	700 U	835 U	NVG
4-Nitrophenol	760 U	762 U	765 U	680 U	718 U	731 U	706 U	700 U	835 U	NVG
Dibenzofuran	370 U	157 J	75.1 J	320 U	354 U	360 U	348 U	350 U	411 U	350,000
2,4-Dinitrotoluene	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Diethylphthalate	370 U	468	77.3 J	320 U	107 J	360 U	348 U	350 U	411 U	NVG
4-Chlorophenyl-phenylether	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Fluorene	370 U	171 J	74.9 J	320 U	354 U	360 U	706 U	350 U	411 U	500,000
4-Nitroaniline	760 U	762 U	765 U	680 U	718 U	731 U	706 U	700 U	835 U	NVG
4,6-Dinitro-2-methylphenol	760 U	762 U	765 U	680 U	718 U	731 U	348 U	700 U	835 U	NVG
N-Nitrosodiphenylamine_(1)	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
4-Bromophenyl-phenylether	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Hexachlorobenzene	370 U	376 U	377 U	320 U	354 U	360 U	706 U	350 U	411 U	6,000
Pentachlorophenol	760 U	762 U	765 U	680 U	718 U	731 U	348 U	700 U	835 U	6,700
Phenanthrene	370 U	3,000	1,420	320 U	189 J	360 U	348 U	350 U	411 U	500,000
Anthracene	370 U	496	281 J	320 U	41.5 J	360 U	348 U	350 U	411 U	500,000
Carbazole	370 U	248 J	134 J	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Di-n-butyl phthalate	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Fluoranthene	370 U	4,770	3,340	320 U	355	360 U	348 U	47 J	411 U	500,000
Pyrene	370 U	4,320	2,920	320 U	360	360 U	348 U	49 J	411 U	500,000
Butylbenzylphthalate	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
3,3'-Dichlorobenzidine	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Benzo (a) anthracene	370 U	2,680	1,820	320 U	205 J	360 U	348 U	350 U	411 U	5,600
Chrysene	370 U	2,880	1,750	320 U	202 J	360 U	348 U	350 U	411 U	56,000
bis(2-Ethylhexyl)phthalate	120 JB	223 JB	340 JB	420 B	232 JB	243 JB	184 JB	110 JB	281 JB	NVG
Di-n-octylphthalate	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Benzo(b)fluoranthene	370 U	3,950	2,610	40 J	287 J	360 U	348 U	350 U	411 U	5,600
Benzo(k)fluoranthene	370 U	1,300	866	320 U	94.0 J	360 U	348 U	350 U	411 U	56,000
Benzo(a)pyrene	370 U	2,850	1,770	320 U	200 J	360 U	348 U	350 U	411 U	1,000
Indeno(1,2,3-cd)pyrene	370 U	1,600	1,100	320 U	125 J	360 U	348 U	350 U	411 U	5,600
Dibenzo(a,h)anthracene	370 U	543	332 J	320 U	354 U	360 U	348 U	350 U	411 U	560
Benzo(g,h,i)perylene	370 U	1,990	1,310	320 U	354 U	360 U	348 U	350 U	411 U	500,000
1,1'-Biphenyl	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Acentophenone	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	500,000
Atrazine	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Benzaldehyde	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Caprolactam	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG

Notes:
 U- Not detected at or above laboratory detection limits.
 NVG - No Value Given.
 B - Compound detected in laboratory method blank
 J- Detection under laboratory detection limits
 *GP-X (3-4) is a duplicate of GP-2 (3-4)

Detections shown in bold

Bold and boxed indicates value is above the NYSDEC Part 375 Restricted Commercial Cleanup Value

Table 3
Analytical Results for Metals in Soil
Empire State Varnish
38 Varick Street, Brooklyn, New York

Sample ID	GP-1	GP-2	GP-X*	GP-3	GP-4	GP-4	GP-5	GP-6	GP-6	NYSDEC	Eastern
Depth in Feet	(3-4)	(3-4)	(3-4)	(2.5-3)	4.5	10	(4-5)	(4-5)	10	Restricted-Commercial	U.S.A.
Date Sampled	5/10/2007	5/10/2007	5/10/2007	5/10/2007	5/10/2007	5/10/2007	5/10/2007	5/10/2007	5/10/2007	Part 375	Background
Heavy Metals											
Units	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
Arsenic	1.0	0.073 U	22.3	3.3	3.0	0.62 B	0.49 B	4.9	0.24 B	16	3 to 12
Barium	41.5	0.89 B	295	153	49.7	29.1	30	34.5	20.2	400	15 to 600
Cadmium	0.038 B	0.0053 U	2.6	1.8	0.11 B	0.0055 B	0.0050 U	0.089 B	0.0049 U	9.3	0.1 to 1
Chromium	13.2 E	23.4 E	48.2 E	20.7 E	9.1 E	12.3 E	9.1 E	8.8 E	6.9 E	NVG	1.5 to 40
Lead	10.5 E	0.99 E	691 E	98.1 E	52.6 E	8.3 E	7.7 E	26.5 E	6.4 E	1,000	**
Mercury	0.0077 U	0.70	0.67	0.19	0.14	0.0076 U	0.0067 U	0.058	0.0085 U	2.8	0.001 to 0.2
Selenium	0.046 U	0.064 U	0.069 U	0.071 U	0.038 U	0.050 U	0.061 U	0.037 U	0.060 U	1,500	0.1 to 3.9
Silver	0.38 B	0.055 B	2.1	0.77 B	0.30 B	0.43 B	0.28 B	0.29 B	0.26 B	1,500	NA

Notes:

MG/KG - milligram per kilogram or parts per million

NVG- No value Given

*GP-X (3-4) is a duplicate of GP-2 (3-4)

U- Not detected at or above laboratory detection limits.

NA - Not Available

SB - Site Background

Bold indicates compound is above both eastern U.S.A. background and NYSDEC Restricted Commercial Limits.

E-Serial Dilution

B- Result is between Method Detection Limit and Practical Quantitation Limit

** Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

Table 2. Summary of Volatile Organic Compounds in Soil, Empire Property, Greenpoint, Brooklyn, New York

Parameter		Sample Designation:	MW-90	MW-90	MW-93	MW-93	MW-94	SB-1	SB-1	SB-2	SB-2	SB-6	SB-3	SB-4	SB-4	SB-5	SB-5
(Concentrations in µg/kg)	Restricted - commercial	Sample Date:	12/12/06	12/12/06	12/11/06	12/11/06	12/11/06	12/11/06	12/14/06	12/12/06	12/14/06	12/11/06	12/14/06	12/11/06	12/15/06	12/11/06	12/15/06
		Sample Depth (ft bls):	1-2	29-31	1-2	27-29	1-2	1-2	27.5-30	1-2	27.5-30	0.5-1	27.5-30	1-2	20-22.5	1-2	12.5-15
n-Propylbenzene	500000		5.8 U	72000	7.3 U	16600	6900 U	8.4 U	2.7 J	7.5 U	4.9 U	9.6 U	81.4	6.3 U	2990	6.3 U	36.4
o-Chlorotoluene	--		5.8 U	15000 U	7.3 U	6900 U	6900 U	8.4 U	5.9 U	7.5 U	4.9 U	9.6 U	37 U	6.3 U	360 U	6.3 U	7.2 U
o-Xylene	--		6	312000	2.1	71300	10800	1.8	14.4	1.5 U	1.4	1.7 J	166	2.5	11200	1.3 U	115
p-Chlorotoluene	--		5.8 U	15000 U	7.3 U	6900 U	6900 U	8.4 U	5.9 U	7.5 U	4.9 U	9.6 U	37 U	6.3 U	360 U	6.3 U	7.2 U
p-Isopropyltoluene	--		5.8 U	24700	7.3 U	5160 J	135 J	8.4 U	0.7 J	7.5 U	4.9 U	9.6 U	52.3	6.3 U	1030	6.3 U	30.7
sec-Butylbenzene	500000		5.8 U	13600 J	7.3 U	2870 J	59.6 J	8.4 U	0.77 J	7.5 U	4.9 U	9.6 U	27.5 J	6.3 U	540	6.3 U	24.5
Styrene	--		5.8 U	15000 U	7.3 U	6900 U	6900 U	8.4 U	5.9 U	7.5 U	4.9 U	9.6 U	37 U	6.3 U	360 U	6.3 U	7.2 U
tert-Butylbenzene	500000		5.8 U	15000 U	7.3 U	6900 U	6900 U	8.4 U	5.9 U	7.5 U	4.9 U	9.6 U	37 U	6.3 U	360 U	6.3 U	7.2 U
Tetrachloroethene	150000		5.8 U	15000 U	7.3 U	6900 U	6900 U	8.4 U	5.9 U	7.5 U	4.9 U	9.6 U	37 U	8.5	360 U	6.3 U	7.2 U
Toluene	500000		12.8	457000	20.1	70700	6900 U	18.8	5.1	3.9	5.2	23.3	18.6	23.4	7970	1.8	30.3
trans-1,2-Dichloroethene	500000		5.8 U	15000 U	7.3 U	6900 U	6900 U	8.4 U	5.9 U	7.5 U	4.9 U	9.6 U	37 U	6.3 U	360 U	6.3 U	7.2 U
trans-1,3-Dichloropropene	--		5.8 U	15000 U	7.3 U	6900 U	6900 U	8.4 U	5.9 U	7.5 U	4.9 U	9.6 U	37 U	6.3 U	360 U	6.3 U	7.2 U
Trichloroethene	200000		5.8 U	15000 U	7.3 U	6900 U	6900 U	8.4 U	5.9 U	7.5 U	4.9 U	9.6 U	37 U	6.4	360 U	6.3 U	2.9 J
Trichlorofluoromethane	--		5.8 U	15000 U	7.3 U	6900 U	6900 U	8.4 U	5.9 U	7.5 U	4.9 U	9.6 U	37 U	6.3 U	360 U	6.3 U	7.2 U
Vinyl chloride	13000		5.8 U	15000 U	7.3 U	6900 U	6900 U	8.4 U	5.9 U	7.5 U	4.9 U	9.6 U	37 U	6.3 U	360 U	6.3 U	7.2 U
Xylenes (total)	500000		19.8	1440000	8.4	311000	28200	6.5	63.5	3 U	7.8	6.6	493	8.6	52100	2.5 U	290

µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Restricted Soil Cleanup Objectives
J - Estimated value
U - Not detected
Bold - Indicates value exceeds Restricted Commercial Criteria

Table 3. Summary of Semivolatile Organic Compounds in Soil, Empire Property, Greenpoint, Brooklyn, New York

Parameter (Concentrations in µg/kg)	Sample Designation: Sample Date: Sample Depth (ft bls):	MW-90 12/12/06 1-2	MW-90 12/12/06 29-31	MW-93 12/11/06 1-2	MW-93 12/11/06 27-29	MW-94 12/11/06 1-2	SB-1 12/11/06 1-2	SB-1 12/14/06 27.5-30	SB-2 12/12/06 1-2	SB-2 12/14/06 27.5-30	SB-6 12/11/06 0.5-1	SB-3 12/14/06 27.5-30	SB-4 12/11/06 1-2	SB-4 12/15/06 20-22.5	SB-5 12/11/06 1-2	SB-5 12/15/06 12.5-15
1,2,4-Trichlorobenzene	--	78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	75 U	81 U	77 U	79 U
1,2-Dichlorobenzene	500000	78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	75 U	81 U	77 U	79 U
1,3-Dichlorobenzene	280000	78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	75 U	81 U	77 U	79 U
1,4-Dichlorobenzene	130000	78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	75 U	81 U	77 U	79 U
2,2'-oxybis (1-chloropropane)	--	78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	75 U	81 U	77 U	79 U
2,4,5-Trichlorophenol	--	200 U	180 U	210 U	170 U	190 U	230 U	190 U	210 U	170 U	250 U	170 U	190 U	200 U	190 U	200 U
2,4,6-Trichlorophenol	--	200 U	180 U	210 U	170 U	190 U	230 U	190 U	210 U	170 U	250 U	170 U	190 U	200 U	190 U	200 U
2,4-Dichlorophenol	--	200 U	180 U	210 U	170 U	190 U	230 U	190 U	210 U	170 U	250 U	170 U	190 U	200 U	190 U	200 U
2,4-Dimethylphenol	--	200 U	1060	210 U	170 U	190 U	151 J	190 U	210 U	170 U	250 U	170 U	190 U	200 U	190 U	200 U
2,4-Dinitrophenol	--	780 U	730 U	840 U	700 U	750 U	930 U	750 U	860 U	690 U	1000 U	690 U	750 U	810 U	770 U	790 U
2,4-Dinitrotoluene	--	78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	75 U	81 U	77 U	79 U
2,6-Dinitrotoluene	--	78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	75 U	81 U	77 U	79 U
2-Chloronaphthalene	--	78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	75 U	81 U	77 U	79 U
2-Chlorophenol	--	200 U	180 U	210 U	170 U	190 U	230 U	190 U	210 U	170 U	250 U	170 U	190 U	200 U	190 U	200 U
2-Methylnaphthalene	--	114	56200	37.7 J	11500	39.6 J	867	75 U	86 U	69 U	100 U	1560	54.1 J	5180	77 U	7210
2-Methylphenol	500000	200 U	180 U	210 U	170 U	190 U	112 J	190 U	210 U	170 U	250 U	170 U	190 U	200 U	190 U	200 U
2-Nitroaniline	--	200 U	180 U	210 U	170 U	190 U	230 U	190 U	210 U	170 U	250 U	170 U	190 U	200 U	190 U	200 U
2-Nitrophenol	--	200 U	180 U	210 U	170 U	190 U	230 U	190 U	210 U	170 U	250 U	170 U	190 U	200 U	190 U	200 U
3&4-Methylphenol	--	200 U	180 U	210 U	170 U	190 U	561	190 U	210 U	170 U	250 U	170 U	190 U	200 U	190 U	200 U
3,3'-Dichlorobenzidine	--	200 U	180 U	210 U	170 U	190 U	230 U	190 U	210 U	170 U	250 U	170 U	190 U	200 U	190 U	200 U
3-Nitroaniline	--	200 U	180 U	210 U	170 U	190 U	230 U	190 U	210 U	170 U	250 U	170 U	190 U	200 U	190 U	200 U
4,6-Dinitro-2-methylphenol	--	780 U	730 U	840 U	700 U	750 U	930 U	750 U	860 U	690 U	1000 U	690 U	750 U	810 U	770 U	790 U
4-Bromophenyl phenyl ether	--	78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	75 U	81 U	77 U	79 U
4-Chloro-3-methylphenol	--	200 U	180 U	210 U	170 U	190 U	230 U	190 U	210 U	170 U	250 U	170 U	190 U	200 U	190 U	200 U
4-Chloroaniline	--	200 U	180 U	210 U	170 U	190 U	230 U	190 U	210 U	170 U	250 U	170 U	190 U	200 U	190 U	200 U
4-Chlorophenyl phenyl ether	--	78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	75 U	81 U	77 U	79 U
4-Nitroaniline	--	200 U	180 U	210 U	170 U	190 U	230 U	190 U	210 U	170 U	250 U	170 U	190 U	200 U	190 U	200 U
4-Nitrophenol	--	780 U	730 U	840 U	700 U	750 U	930 U	750 U	860 U	690 U	1000 U	690 U	750 U	810 U	770 U	790 U
Acenaphthene	500000	41.2 J	1880	414	70 U	75 U	4400	75 U	86 U	69 U	100 U	145	234	228	167	2230
Acenaphthylene	500000	156	73 U	81 J	70 U	75 U	781	75 U	86 U	69 U	34.7 J	69 U	79.4	81 U	61.6 J	79 U
Anthracene	500000	321	710	1290	164	75 U	10400	75 U	86 U	69 U	44.3 J	72.8	483	127	485	4690
Benzo[a]anthracene	5600	672	273	3470	68.3 J	113	21400	18.1 J	49 J	69 U	99.4 J	24.3 J	1030	94.4	1340	6130
Benzo[a]pyrene	1000	832	157	3460	70 U	89.5	17700	26.7 J	40.6 J	69 U	128	69 U	959	67.2 J	1250	4830
Benzo[b]fluoranthene	5600	1350	90.4	4380	70 U	444	22900	26.2 J	60.7 J	69 U	165	69 U	1230	72.5 J	1300	4670
Benzo[g,h,i]perylene	500000	693	126	2320	70 U	352	10500	75 U	35.5 J	69 U	252	69 U	631	50.2 J	813	2560
Benzo[k]fluoranthene	56000	471	37.9 J	1330	70 U	242	6810	75 U	33.5 J	69 U	84.5 J	69 U	428	38.8 J	717	1510
Bis(2-chloroethoxy)methane	--	78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	75 U	81 U	77 U	79 U
Bis(2-chloroethyl) ether	--	78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	75 U	81 U	77 U	79 U
Bis(2-ethylhexyl) phthalate	--	1010	145	84 U	70 U	190	93 U	75 U	86 U	69 U	100 U	69	214	81 U	618	437
Butylbenzyl phthalate	--	78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	73.8 J	81 U	77 U	79 U
Carbazole	--	78 U	73 U	741	70 U	75 U	4630	75 U	86 U	69 U	100 U	69 U	175	81 U	173	550
Chrysene	56000	851	415	3590	109	230	21800	34.8 J	63 J	69 U	118	44.2 J	1080	111	1280	6790
Dibenzo[a,h]anthracene	560	234	73 U	497	70 U	118	3270	75 U	86 U	69 U	74.9 J	69 U	186	21.5 J	218	959
Dibenzofuran	350000	78 U	1240	189	274	75 U	2830	75 U	86 U	69 U	100 U	69 U	128	126	60.6 J	788
Diethyl phthalate	--	78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	75 U	81 U	77 U	79 U
Dimethyl phthalate	--	78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	75 U	81 U	77 U	79 U
Di-n-butyl phthalate	--	78 U	73 U	84 U	70 U	80.7	120	75 U	86 U	69 U	100 U	69 U	98.5	81 U	77 U	79 U
Di-n-octyl phthalate	--	78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	1630	81 U	77 U	79 U

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Table 3. Summary of Semivolatile Organic Compounds in Soil, Empire Property, Greenpoint, Brooklyn, New York

Parameter (Concentrations in µg/kg)	Restricted - commercial	Sample Designation:	MW-90	MW-90	MW-93	MW-93	MW-94	SB-1	SB-1	SB-2	SB-2	SB-6	SB-3	SB-4	SB-4	SB-5	SB-5
Sample Date:		12/12/06	12/12/06	12/11/06	12/11/06	12/11/06	12/11/06	12/11/06	12/14/06	12/12/06	12/14/06	12/11/06	12/14/06	12/11/06	12/15/06	12/11/06	12/15/06
Sample Depth (ft bls):		1-2	29-31	1-2	27-29	1-2	1-2	27.5-30	1-2	27.5-30	1-2	27.5-30	0.5-1	27.5-30	1-2	20-22.5	1-2
Fluoranthene	500000		1180	339	8850	85.2	190	52500	36.8 J	101	69 U	201	69 U	2310	196	2650	10400
Fluorene	500000		57.3 J	2900	384	744	75 U	4310	75 U	86 U	69 U	100 U	206	204	321	181	2800
Hexachlorobenzene	6000		78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	75 U	81 U	77 U	79 U
Hexachlorobutadiene	--		78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	75 U	81 U	77 U	79 U
Hexachlorocyclopentadiene	--		780 U	730 U	840 U	700 U	750 U	930 U	750 U	860 U	690 U	1000 U	690 U	750 U	810 U	770 U	790 U
Hexachloroethane	--		200 U	180 U	210 U	170 U	190 U	230 U	190 U	210 U	170 U	250 U	170 U	190 U	200 U	190 U	200 U
Indeno[1,2,3-cd]pyrene	5600		613	57.1 J	2110	70 U	319	10100	75 U	36.7 J	69 U	238	69 U	608	40.1 J	752	2290
Isophorone	--		78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	75 U	81 U	77 U	79 U
Naphthalene	500000		1490	42700	84 U	6150	89	1480	75 U	86 U	69 U	100 U	694	98.5	2830	77 U	911
Nitrobenzene	--		78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	75 U	81 U	77 U	79 U
n-Nitrosodi-n-propylamine	--		78 U	73 U	84 U	70 U	75 U	93 U	75 U	86 U	69 U	100 U	69 U	75 U	81 U	77 U	79 U
n-Nitrosodiphenylamine	--		200 U	180 U	210 U	170 U	190 U	230 U	190 U	210 U	170 U	250 U	170 U	190 U	200 U	190 U	200 U
Pentachlorophenol	6700		780 U	730 U	840 U	700 U	750 U	930 U	750 U	860 U	690 U	1000 U	690 U	750 U	810 U	770 U	790 U
Phenanthrene	500000		792	6660	5920	1760	85.3	48300	75 U	51.5 J	69 U	115	294	1940	843	1640	18400
Phenol	500000		200 U	180 U	210 U	170 U	190 U	230 U	190 U	210 U	170 U	250 U	170 U	190 U	200 U	190 U	200 U
Pyrene	500000		999	1110	6920	290	152	38800	43.5 J	79.1 J	69 U	190	81.3	1960	233	2200	13100

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

RSCOs - Restricted Soil Cleanup Objectives

J - Estimated value

U - Not detected

Bold - Indicates value exceeds Restricted Commercial Criteria

Table 4. Summary of Metals in Soil, Empire Property, Greenpoint, Brooklyn, New York

Parameter	Sample Designation:	MW-90	MW-90	MW-93	MW-93	MW-94	SB-1	SB-1	SB-2	SB-2	SB-3	SB-3	SB-4	SB-4	SB-5	SB-5	
(Concentrations in mg/kg)	<i>Restricted - commercial</i>	Sample Date:	12/12/06	12/12/06	12/11/06	12/11/06	12/11/06	12/14/06	12/12/06	12/14/06	12/11/06	12/14/06	12/11/06	12/15/06	12/11/06	12/15/06	
		Sample Depth (ft bls):	1-2	29-31	1-2	27-29	1-2	1-2	27.5-30	1-2	27.5-30	0.5-1	27.5-30	1-2	20-22.5	1-2	12.5-15
Aluminum	--		6330	3360	3690	2650	5370	5420	3830	3660	3250	3920	3060	3820	2730	8620	4360
Antimony	--		2.4 U	2.2 U	2.6 U	2 U	2.2 U	6.2	2.3 U	2.8	2.1 U	2.9 U	2.1 U	2.2 U	2.5 U	2.3 U	4.9
Arsenic	16		14.4	2.2 U	21.6	2 U	5.8	72.3	2.3 U	25.5	2.1 U	12.5	2.1 U	14.7	2.5 U	3.7	5.1
Barium	400		651	23.4	264	21	1390	907	23 U	76.4	22.2	97.8	21 U	472	25 U	96.5	148
Beryllium	590		0.6 U	0.54 U	0.64 U	0.51 U	0.56 U	0.71 U	0.57 U	0.63 U	0.53 U	0.74 U	0.53 U	0.55 U	0.63 U	0.58 U	0.59 U
Cadmium	9.3		1.1	0.54 U	0.64 U	0.51 U	0.56 U	8.8	0.57 U	0.63 U	0.53 U	0.74 U	0.53 U	0.55 U	0.63 U	0.58 U	7.5
Calcium	--		1690	1280	46200	7650	10300	26000	1210	8940	4530	19900	3470	5180	3430	7920	7150
Chromium	--		31.4	7.5	14.8	7.2	14.9	60.3	8.6	10.3	5.5	22.4	6.2	20.4	5.2	29.6	13.7
Cobalt	--		15.5	5.4 U	6.4 U	5.1 U	6.2	24.4	5.7 U	7.6	5.3 U	9.3	5.3 U	10.6	6.3 U	7.3	5.9 U
Copper	270		165	10.5	134	8.6	73.2	970	9.8	69.6	8.6	237	9	242	10.6	34.5	4490
Iron	--		36300	7980	18500	6950	28500	188000	8440	40900	7740	38700	6730	32500	5700	18600	9950
Lead	1000		525	6.5	270	3.3	165	1730	3.7	618	2.3	265	3.8	456	4.7	68.7	571
Magnesium	--		1660	1930	980	4380	951	3990	1960	630 U	2990	4850	2640	1310	2610	3270	1640
Manganese	10000		255	214	141	252	445	1000	202	169	207	225	301	255	161	411	326
Mercury	2.8		0.78	0.034 U	0.25	0.034 U	1.4	3.6	0.035 U	0.16	0.033 U	0.25	0.032 U	0.77	0.039 U	0.11	0.45
Nickel	310		22.8	7.6	14.2	6.8	15.1	58.8	7.6	22.8	6.7	15.8	7.4	19.4	5.3	16.1	14.8
Potassium	--		781	633	640 U	510 U	560 U	821	814	630 U	530 U	740 U	547	550 U	630 U	1940	952
Selenium	1500		2.4 U	2.2 U	2.6 U	2 U	2.2 U	12.2	2.3 U	2.5 U	2.1 U	2.9 U	2.1 U	2.2 U	2.5 U	2.3 U	2.4 U
Silver	1500		1.2 U	1.1 U	1.3 U	1 U	1.1 U	4.1	1.1 U	1.3 U	1.1 U	1.5 U	1.1 U	1.1 U	1.3 U	1.2 U	1.2 U
Sodium	--		1200 U	1100 U	1300 U	1000 U	1100 U	1400 U	1100 U	1300 U	1100 U	1500 U	1100 U	1100 U	1300 U	1200 U	1200 U
Thallium	--		1.2 U	1.1 U	1.3 U	1 U	1.1 U	2.8 U	1.1 U	1.3 U	1.1 U	1.5 U	1.1 U	1.1 U	1.3 U	1.2 U	1.2 U
Vanadium	--		35.7	9.4	17.8	8.4	22.1	32.8	13.3	13.1	9.1	20.3	8.6	17.5	6.3 U	27	20.3
Zinc	10000		1180	16.9	216	16	110	1730	21	163	15.9	347	19.1	693	29.3	107	6260

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

RSCOs - Restricted Soil Cleanup Objectives

U - Not detected

Bold - Indicates value exceeds Restricted Commercial Criteria

Table 5. Summary of Volatile Organic Compounds in Soil Using the Toxicity Characteristic Leachate Procedure, Empire Property, Greenpoint, Brooklyn, New York

Parameter (Concentrations in mg/L)	USEPA Regulatory Limits (mg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	MW-90 12/12/06 1-2	MW-93 12/11/06 1-2	MW-94 12/11/06 1-2	SB-1 12/11/06 1-2	SB-2 12/12/06 1-2	SB-3 12/11/06 0.5-1	SB-4 12/11/06 1-2	SB-5 12/11/06 1-2
1,1-Dichloroethene	0.7		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloroethane	0.5		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,4-Dichlorobenzene	7.5		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2-Butanone (MEK)	200		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzene	0.5		0.0019 J	0.005 U	0.005 U	0.005 U	0.0029 J	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	0.5		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chlorobenzene	100		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloroform	6		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.7		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethene	0.5		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Vinyl chloride	0.2		0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U

mg/L - Milligrams per Liter

ft bls - Feet below land surface

USEPA - United States Environmental Protection Agency

J - Estimated value

U - Not detected

Table 6. Summary of Semivolatile Organic Compounds in Soil Using the Toxicity Characteristic Leachate Procedure, Empire Property, Greenpoint, Brooklyn, New York

Parameter (Concentrations in mg/L)	USEPA Regulatory Limits (mg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	MW-90 12/12/06 1-2	MW-93 12/11/06 1-2	MW-94 12/11/06 1-2	SB-1 12/11/06 1-2	SB-2 12/12/06 1-2	SB-3 12/11/06 0.5-1	SB-4 12/11/06 1-2	SB-5 12/11/06 1-2
1,4-Dichlorobenzene	7.5		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
2,4,5-Trichlorophenol	400		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2,4,6-Trichlorophenol	2		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2,4-Dinitrotoluene	0.13		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
2-Methylphenol	200		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
3&4-Methylphenol	200		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Hexachlorobenzene	0.13		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Hexachlorobutadiene	0.5		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Hexachloroethane	3		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Nitrobenzene	2		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Pentachlorophenol	100		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Pyridine	5		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

mg/L - Milligrams per Liter

ft bls - Feet below land surface

USEPA - United States Environmental Protection Agency

U - Not detected

Table 7. Summary of Metals in Soil, Using the Toxicity Characteristic Leachate Procedure, Empire Property, Greenpoint, Brooklyn, New York

Parameter	USEPA Regulatory (Concentrations in mg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	MW-90 12/12/06 1-2	MW-93 12/11/06 1-2	MW-94 12/11/06 1-2	SB-1 12/11/06 1-2	SB-2 12/12/06 1-2	SB-3 12/11/06 0.5-1	SB-4 12/11/06 1-2	SB-5 12/11/06 1-2
Arsenic	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Barium	100		2.1	1 U	1 U	1 U	1 U	1 U	1.2	1 U
Cadmium	1		0.012	0.005 U	0.005 U	0.018	0.005 U	0.005 U	0.0071	0.005 U
Chromium	5		0.01 U	0.024	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Lead	5		0.5 U	0.5 U	0.5 U	0.51	0.5 U	0.5 U	0.5 U	0.5 U
Mercury	0.2		0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Selenium	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Silver	5		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

mg/L - Milligrams per Liter
ft bls - Feet below land surface
USEPA - United States Environmental Protection Agency
U - Not detected

Table 8. Summary of Pesticides in Soil Using the Toxicity Characteristic Leachate Procedure, Empire Property, Greenpoint, Brooklyn, New York

Parameter (Concentrations in mg/L)	USEPA Regulatory Limits (mg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	MW-90 12/12/06 1-2	MW-93 12/11/06 1-2	MW-94 12/11/06 1-2	SB-1 12/11/06 1-2	SB-2 12/12/06 1-2	SB-3 12/11/06 0.5-1	SB-4 12/11/06 1-2	SB-5 12/11/06 1-2
2,4,5-TP	1		0.0075 U	0.0015 U	0.0015 U	0.0075 U	0.0075 U	0.0015 U	0.0075 U	0.0015 U
2,4-D	10		0.025 U	0.005 U	0.005 U	0.025 U	0.025 U	0.005 U	0.025 U	0.005 U
Chlordane	0.03		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Endrin	0.02		0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
gamma-BHC (Lindane)	0.4		0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Heptachlor	0.008		0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Heptachlor epoxide	0.008		0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Methoxychlor	10		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Toxaphene	0.5		0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U

mg/L - Milligrams per Liter

ft bls - Feet below land surface

USEPA - United States Environmental Protection Agency

U - Not detected

Table 9. Summary of Volatile Organic Compounds in Groundwater, Empire Property, Greenpoint, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	MW-27 12/29/06	MW-90 12/29/06	MW-93 12/29/06	MW-93 DUP 12/29/06	MW-94 12/29/06	TRIP BLANK 12/29/06
1,1,1,2-Tetrachloroethane	5		5 U	100 U	100 U	100 U	25 U	5 U
1,1,1-Trichloroethane	5		1 U	590	20 U	522	5 U	1 U
1,1,2,2-Tetrachloroethane	5		1 U	20 U	20 U	20 U	5 U	1 U
1,1,2-Trichloroethane	1		1 U	20 U	20 U	20 U	5 U	1 U
1,1-Dichloroethane	5		1.5	205	20 U	54.4	5 U	1 U
1,1-Dichloroethene	5		1 U	8 J	20 U	20 U	5 U	1 U
1,1-Dichloropropene	5		5 U	100 U	100 U	100 U	25 U	5 U
1,2,3-Trichlorobenzene	5		5 U	100 U	100 U	100 U	25 U	5 U
1,2,3-Trichloropropane	0.04		5 U	100 U	100 U	100 U	25 U	5 U
1,2,4-Trichlorobenzene	5		5 U	100 U	100 U	100 U	25 U	5 U
1,2,4-Trimethylbenzene	5		2.4 J	1560	1320	2910	1580	5 U
1,2-Dibromo-3-chloropropane	0.04		10 U	200 U	200 U	200 U	50 U	10 U
1,2-Dibromoethane	5		2 U	40 U	40 U	40 U	10 U	2 U
1,2-Dichlorobenzene	3		1 U	20 U	20 U	20 U	5 U	1 U
1,2-Dichloroethane	0.6		1 U	20 U	20 U	20 U	5 U	1 U
1,2-Dichloropropane	1		1 U	20 U	20 U	20 U	5 U	1 U
1,3,5-Trimethylbenzene	5		5 U	518	443	1090	413	5 U
1,3-Dichlorobenzene	3		1 U	20 U	20 U	20 U	5 U	1 U
1,3-Dichloropropane	5		5 U	100 U	100 U	100 U	25 U	5 U
1,4-Dichlorobenzene	3		1 U	20 U	20 U	20 U	5 U	1 U
2,2-Dichloropropane	5		5 U	100 U	100 U	100 U	25 U	5 U
2-Butanone (MEK)	50		10 U	200 U	200 U	200 U	50 U	10 U
4-Methyl-2-pentanone (MIBK)	--		5 U	100 U	100 U	100 U	25 U	5 U
Acetone	50		10 U	200 U	200 U	200 U	50 U	10 U
Benzene	1		68.3	17500	17500	17300	287	1 U
Bromobenzene	5		5 U	100 U	100 U	100 U	25 U	5 U
Bromochloromethane	5		5 U	100 U	100 U	100 U	25 U	5 U
Bromodichloromethane	50		1 U	20 U	20 U	20 U	5 U	1 U
Bromoform	50		4 U	80 U	80 U	80 U	20 U	4 U
Bromomethane	5		2 U	40 U	40 U	40 U	10 U	2 U
Carbon tetrachloride	5		1 U	20 U	20 U	20 U	5 U	1 U
Chlorobenzene	5		1 U	20 U	20 U	20 U	5 U	1 U
Chloroethane	5		14.6	20.5	20 U	20 U	5 U	1 U
Chloroform	7		1 U	20 U	20 U	20 U	5 U	1 U
Chloromethane	5		1 U	20 U	20 U	20 U	5 U	1 U
cis-1,2-Dichloroethene	--		1 U	29.4	20 U	20 U	2.6 J	1 U
cis-1,3-Dichloropropene	--		1 U	20 U	20 U	20 U	5 U	1 U
Dibromochloromethane	50		1 U	20 U	20 U	20 U	5 U	1 U

Table 9. Summary of Volatile Organic Compounds in Groundwater, Empire Property, Greenpoint, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	MW-27 12/29/06	MW-90 12/29/06	MW-93 12/29/06	MW-93 DUP 12/29/06	MW-94 12/29/06	TRIP BLANK 12/29/06
Dichlorodifluoromethane	5		5 U	100 U	100 U	100 U	25 U	5 U
Ethylbenzene	5		5.8	1670	1510	2130	2040	1 U
Hexachlorobutadiene	0.5		5 U	100 U	100 U	100 U	25 U	5 U
Isopropylbenzene	5		3	164	148	334	218	2 U
m+p-Xylene	5		9.4	10500	9170	9480	5820	1 U
Methylene bromide	5		5 U	100 U	100 U	100 U	25 U	5 U
Methylene chloride	5		2 U	40 U	40 U	40 U	10 U	2 U
MTBE	10		67.2	22.6	20 U	20 U	5 U	1 U
Naphthalene	10		5.7	445	442	972	191	5 U
n-Butylbenzene	5		1.3 J	100 U	100 U	134	93.7	5 U
n-Propylbenzene	5		3.1 J	194	166	421	301	5 U
o-Chlorotoluene	--		5 U	100 U	100 U	100 U	25 U	5 U
o-Xylene	5		0.92 J	3110	2760	3880	1500	1 U
p-Chlorotoluene	--		5 U	100 U	100 U	100 U	25 U	5 U
p-Isopropyltoluene	5		5 U	23.8 J	25.3 J	99.1 J	35.6	5 U
sec-Butylbenzene	5		0.82 J	100 U	100 U	100 U	47.8	5 U
Styrene	5		5 U	100 U	100 U	100 U	25 U	5 U
tert-Butylbenzene	5		1.3 J	100 U	100 U	100 U	10.9 J	5 U
Tetrachloroethene	5		1 U	20 U	20 U	20 U	5 U	1 U
Toluene	5		2.1	18400	16900	16700	616	1 U
trans-1,2-Dichloroethene	--		1 U	20 U	20 U	20 U	5 U	1 U
trans-1,3-Dichloropropene	--		1 U	20 U	20 U	20 U	5 U	1 U
Trichloroethene	5		1 U	20 U	20 U	20 U	5 U	1 U
Trichlorofluoromethane	5		5 U	100 U	100 U	100 U	25 U	5 U
Vinyl chloride	2		1 U	20 U	20 U	20 U	5 U	1 U
Xylenes (total)	5		10.4	13800	12200	12500	7320	1 U
Total VOCs:			197.84	68760.3	62584.3	68526.5	20476.6	0

Notes:

J - Estimated value

U - Analyte was not detected at or above the reporting limit

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

-- - No NYSDEC AWQSGV available

Bold - Concentration exceeds NYSDEC AWQSGVs

µg/L - Micrograms per liter

VOCs - Volatile Organic Compounds

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date:	MW-27 12/29/06	MW-90 12/29/06	MW-93 12/29/06	MW-93 DUP 12/29/06	MW-94 12/29/06
1,2,4-Trichlorobenzene	5		2 U	2.1 U	2.2 U	2.2 U	2 U
1,2-Dichlorobenzene	3		2 U	2.1 U	2.2 U	2.2 U	2 U
1,3-Dichlorobenzene	3		2 U	2.1 U	2.2 U	2.2 U	2 U
1,4-Dichlorobenzene	3		2 U	2.1 U	2.2 U	2.2 U	2 U
2,2'-oxybis (1-chloropropane)	--		2 U	2.1 U	2.2 U	2.2 U	2 U
2,4,5-Trichlorophenol	--		5 U	5.3 U	5.4 U	5.4 U	5 U
2,4,6-Trichlorophenol	--		5 U	5.3 U	5.4 U	5.4 U	5 U
2,4-Dichlorophenol	5		5 U	5.3 U	5.4 U	5.4 U	5 U
2,4-Dimethylphenol	50		5 U	25.6	21.1	23.6	26.1
2,4-Dinitrophenol	10		20 U	21 U	22 U	22 U	20 U
2,4-Dinitrotoluene	5		2 U	2.1 U	2.2 U	2.2 U	2 U
2,6-Dinitrotoluene	5		2 U	2.1 U	2.2 U	2.2 U	2 U
2-Chloronaphthalene	10		5 U	5.3 U	5.4 U	5.4 U	5 U
2-Chlorophenol	--		5 U	5.3 U	5.4 U	5.4 U	5 U
2-Methylnaphthalene	--		0.83 J	261	323	654	43.1
2-Methylphenol	--		5 U	37.5	42.8	44.6	3.9 J
2-Nitroaniline	5		5 U	5.3 U	5.4 U	5.4 U	5 U
2-Nitrophenol	--		5 U	5.3 U	5.4 U	5.4 U	5 U
3&4-Methylphenol	--		5 U	47.9	58.5	62.4	5 U
3,3'-Dichlorobenzidine	5		5 U	5.3 U	5.4 U	5.4 U	5 U
3-Nitroaniline	5		5 U	5.3 U	5.4 U	5.4 U	5 U
4,6-Dinitro-2-methylphenol	--		20 U	21 U	22 U	22 U	20 U
4-Bromophenyl phenyl ether	--		2 U	2.1 U	2.2 U	2.2 U	2 U
4-Chloro-3-methylphenol	--		5 U	5.3 U	5.4 U	5.4 U	5 U
4-Chloroaniline	5		5 U	5.3 U	5.4 U	5.4 U	5 U
4-Chlorophenyl phenyl ether	--		2 U	2.1 U	2.2 U	2.2 U	2 U
4-Nitroaniline	5		5 U	5.3 U	5.4 U	5.4 U	5 U
4-Nitrophenol	--		20 U	21 U	22 U	22 U	20 U
Acenaphthene	20		2 U	7	9.4	20.7	2.8
Acenaphthylene	--		2 U	2.1 U	2.2 U	2.2 U	2 U
Anthracene	50		2 U	3	3.7	7.2	2
Benzo[a]anthracene	0.002		2 U	1.2 J	1.4 J	3.3	1.6 J
Benzo[a]pyrene	ND		2 U	2.1 U	0.73 J	1.9 J	0.97 J
Benzo[b]fluoranthene	0.002		2 U	2.1 U	2.2 U	2.2 U	0.8 J
Benzo[g,h,i]perylene	--		2 U	2.1 U	2.2 U	1.1 J	2 U
Benzo[k]fluoranthene	0.002		2 U	2.1 U	2.2 U	2.2 U	0.83 J
Bis(2-chloroethoxy)methane	5		2 U	2.1 U	2.2 U	2.2 U	2 U
Bis(2-chloroethyl) ether	1		2 U	2.1 U	2.2 U	2.2 U	2 U

Table 10. Summary of Semivolatile Organic Compounds in Groundwater, Empire Property, Greenpoint, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date:	MW-27 12/29/06	MW-90 12/29/06	MW-93 12/29/06	MW-93 DUP 12/29/06	MW-94 12/29/06
Bis(2-ethylhexyl) phthalate	5		2 U	10.6	10	21.4	3.8
Butylbenzyl phthalate	50		2 U	2.1 U	2.2 U	2.2 U	2 U
Carbazole	--		2 U	5.6	3.8	4.9	2 U
Chrysene	0.002		2 U	1.7 J	2.1 J	5.3	1.8 J
Dibenzo[a,h]anthracene	--		2 U	2.1 U	2.2 U	2.2 U	2 U
Dibenzofuran	--		5 U	5.2 J	6.7	14	1.2 J
Diethyl phthalate	50		2 U	2.1 U	2.2 U	2.2 U	2 U
Dimethyl phthalate	50		2 U	2.1 U	2.2 U	2.2 U	2 U
Di-n-butyl phthalate	50		2 U	2.1 U	2.2 U	2.2 U	2 U
Di-n-octyl phthalate	50		2 U	2.1 U	2.2 U	2.2 U	2 U
Fluoranthene	50		2 U	1.3 J	1.4 J	2.7	3.5
Fluorene	50		2 U	12.2	16	35.5	2.9
Hexachlorobenzene	0.04		2 U	2.1 U	2.2 U	2.2 U	2 U
Hexachlorobutadiene	0.5		2 U	2.1 U	2.2 U	2.2 U	2 U
Hexachlorocyclopentadiene	5		20 U	21 U	22 U	22 U	20 U
Hexachloroethane	5		5 U	5.3 U	5.4 U	5.4 U	5 U
Indeno[1,2,3-cd]pyrene	0.002		2 U	2.1 U	2.2 U	2.2 U	2 U
Isophorone	50		2 U	2.1 U	2.2 U	2.2 U	2 U
Naphthalene	10		1.2 J	332	310	531	58.3
Nitrobenzene	0.4		2 U	2.1 U	2.2 U	2.2 U	2 U
n-Nitrosodi-n-propylamine	--		2 U	2.1 U	2.2 U	2.2 U	2 U
n-Nitrosodiphenylamine	50		5 U	5.3 U	5.4 U	5.4 U	5 U
Pentachlorophenol	1		20 U	21 U	22 U	22 U	20 U
Phenanthrene	50		2 U	29.4	36	67.9	9.8
Phenol	1		2.5 J	42.8	61.5	5.4 U	5 U
Pyrene	50		2 U	4.7	6	14.2	4.7
Total SVOCs:			4.53	828.7	914.13	1515.7	168.1

Notes:

J - Estimated value

U - Analyte was not detected at or above the reporting limit

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

-- - No NYSDEC AWQSGV available

Bold - Concentration exceeds NYSDEC AWQSGVs

µg/L - Micrograms per liter

Table 11. Summary of Metals in Groundwater, Empire Property, Greenpoint, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	Sample Designation: Sample Date:	MW-27 12/29/06	MW-90 12/29/06	MW-93 12/29/06	MW-93 DUP 12/29/06	MW-94 12/29/06
Aluminum	--		224	5520	8780	3610	64100
Antimony	3		6 U	6 U	6 U	6 U	6 U
Arsenic	25		18.8	13.1	13.6	11.5	41.5
Barium	1000		1890	686	658	599	16900
Beryllium	3		1 U	1 U	1 U	1 U	2.8
Cadmium	5		11.4	4 U	4 U	4 U	4 U
Calcium	--		226000	85000	92200	88600	136000
Chromium	50		14.3	13.7	19.4	10 U	123
Cobalt	--		50 U	50 U	50 U	50 U	50 U
Copper	200		396	53.7	56.2	34.8	554
Iron	--		321000	53500	25400	15800	158000
Lead	25		12.8	18	21.1	14	584
Magnesium	--		13700	17200	26900	24600	33600
Manganese	300		1710	1350	2520	2340	3440
Mercury	0.7		0.2 U	0.2 U	0.2 U	0.2 U	9.3
Nickel	100		40 U	40 U	40 U	40 U	84.6
Potassium	--		25900	13200	10500	9160	29800
Selenium	10		10 U	10 U	10 U	10 U	10 U
Silver	50		10 U	10 U	10 U	10 U	10 U
Sodium	20000		357000	57300	33000	32100	25900
Thallium	0.5		10 U	10 U	10 U	10 U	10 U
Vanadium	--		50 U	50 U	50 U	50 U	151
Zinc	2000		1670	37.4	53.2	28.7	753

Notes:

U - Indicates that the compound was analyzed for but not detected

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

-- - No NYSDEC AWQSGV available

Bold - Concentration exceeds NYSDEC AWQSGVs

µg/L - Micrograms per liter

Table 12. Summary of Total Petroleum Hydrocarbons in Groundwater, Empire Property, Greenpoint, Brooklyn, New York

Parameter (Concentrations in µg/L)	Sample Designation: Sample Date:	MW-27 12/29/06	MW-90 12/29/06	MW-93 12/29/06	MW-93 DUP 12/29/06	MW-94 12/29/06
TPH		1.9	55.7	63.6	48.2	38.5

Notes:

U - Indicates that the compound was analyzed for but not detected

µg/L - Micrograms per liter

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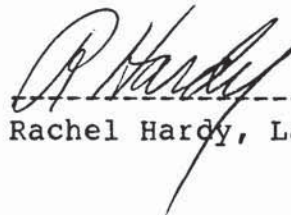
Empire State Varnish Co., Inc.
38 Varick Street
Brooklyn, N.Y. 11222
Attention:

October 9, 1985
Sample: #1
Sample date: 9/30/85
Time: 11:00 am

Results of waste water analysis for the Baseline Monitoring Report,
NYC Industrial Pre-Treatment Program.

All tests were performed in accordance with "Standard Methods for the
Examination of Water and Waste Water, 15th Edition" as specified by
40 CFR 136.

TEST	METHOD	RESULTS mg/liter
Cadmium ((Cd)	310A	.003
Total Chromium ((Cr.T)	312A	.015
Copper ((Cu)	313A	.010
Lead ((Pb)	316A	.025
Nickel ((Ni)	321A	.020
Zinc ((Zn)	328A	.029
Mercury ((Hg)	320A	.0005 Less Than
pH(e)	423	6.7


Rachel Hardy, Lab. Director

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Empire State Varnish Co., Inc.
38 Varick Street
Brooklyn, N.Y. 11222
Attention:

October 9, 1985
Sample: #2
Sample date: 10/1/85
Time 11:00 am

Results of waste water analysis for the Baseline Monitoring Report,
NYC Industrial Pre-Treatment Program.

All tests were performed in accordance with "Standard Methods for the
Examination of Water and Waste Water, 15th Edition" as specified by
40 CFR 136.

TEST	METHOD	RESULTS mg/liter
Cadmium (Cd)	310A	.003
Total Chromium (Cr.T)	312A	.010
Copper (Cu)	313A	.010
Lead (Pb)	316A	.025
Nickel (Ni)	321A	.020
Zinc (Zn)	328A	.022
Mercury (Hg)	320A	.0120
pH(e)	423	6.6


Rachel Hardy, Lab. Director

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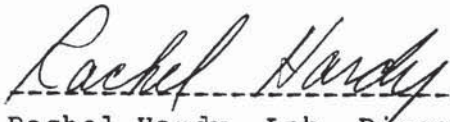
Empire State Varnish Co., Inc.
38 Varick Street
Brooklyn, N.Y. 11222
Attention:

October 9, 1985
Sample: #3
Sample date: 10/2/85
Time 11:00 am

Results of waste water analysis for the Baseline Monitoring Report,
NYC Industrial Pre-Treatment Program.

All tests were performed in accordance with "Standard Methods for the
Examination of Water and Waste Water, 15th Edition" as specified by
40 CFR 136.

TEST	METHOD	RESULTS mg/liter
Cadmium (Cd)	310A	.003
Total Chromium (Cr.T)	312A	.010
Copper (Cu)	313A	.011
Lead (Pb)	316A	.025
Nickel (Ni)	321A	.020
Zinc (Zn)	328A	.012
Mercury (Hg)	320A	.0060
pH(e)	423	6.5


Rachel Hardy, Lab. Director

Empire State Varnish Co., Inc.
38 Varick Street
Brooklyn, New York 11222

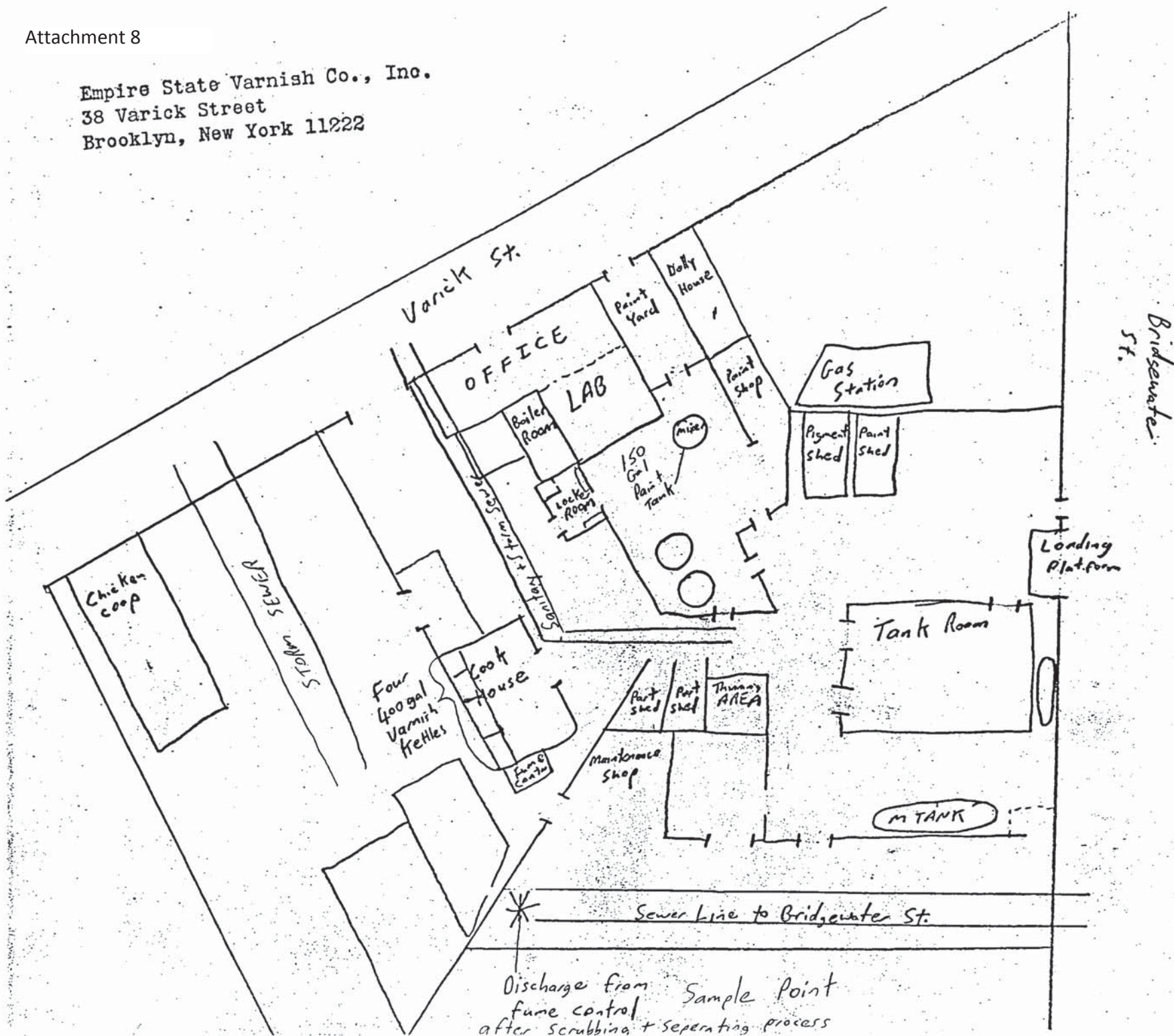


Table 1

Analytical Results for Volatile Organic Compounds in Soil Borings Spring 2007

Empire State Varnish
38 Varick Street, Brooklyn, New York

Sample ID Depth in Feet Date Sampled	GP-1 (3-4) 5/10/2007	GP-2 (3-4) 5/10/2007	GP-X (3-4) 5/10/2007	GP-3 (2.5-3) 5/10/2007	GP-4 4.5 5/10/2007	GP-4 10 5/10/2007	GP-5 (4-5) 5/10/2007	GP-6 (4-5) 5/10/2007	GP-6 10 5/10/2007	NYSDEC Restricted- Commercial Part 375
Volatile Organic Compounds										
Units	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Dichlorodifluoromethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Chloromethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Vinyl Chloride	5U	5U	5U	5U	5U	5U	5U	5U	6U	13,000
Bromomethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Chloroethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Trichlorofluoromethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
1,1-Dichloroethane	5U	5U	5U	5U	2J	5U	5U	5U	6U	240,000
Acetone	5U	5U	5U	5U	5U	13	5U	5U	15	500,000
Carbon Disulfide	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Methylene Chloride	5U	5U	5U	5U	5U	5U	5U	5U	6U	500,000
trans-1,2-Dichloroethene	5U	5U	5U	5U	5U	5U	5U	5U	6U	500,000
Methyl tert-butyl ether	5U	5U	5U	5U	5U	5U	5U	5U	2J	500,000
1,1-Dichloroethene	5U	5U	5U	5U	5U	5U	5U	5U	6U	500,000
2- Butanone	5U	5U	5U	5U	5U	5U	5U	5U	6U	500,000
cis-1,2-Dichloroethene	5U	5U	5U	5U	5U	5U	5U	5U	6U	500,000
Chloroform	5U	5U	5U	1J	5U	5U	5U	5U	6U	350,000
1,1,1-Trichloroethane	5U	6	7	9	5U	5U	5U	5U	6U	500,000
Carbon Tetrachloride	5U	5U	5U	5U	5U	5U	5U	5U	6U	22,000
1,2-Dichloroethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	30,000
Benzene	5U	5U	5U	5U	5U	5U	5U	5U	6J	44,000
Trichloroethene	5U	5U	5U	5U	5U	5U	5U	5U	6U	200,000
1,2-Dichloropropane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Bromodichloromethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
cis-1,3-Dichloropropene	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
4-Methyl-2-pentanone	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Toluene	5U	5U	5U	5U	5U	5U	5U	5U	7	500,000
trans-1,3-Dichloropropene	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
1,1,2-Trichloroethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Tetrachloroethene	5U	5U	5U	5U	5U	5U	5U	5U	6U	150,000
2-Hexanone	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Dibromochloromethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
1,2-Dibromoethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Chlorobenzene	5U	5U	5U	5U	5U	5U	5U	5U	6U	500,000
Ethylbenzene	5U	5U	5U	5U	5U	5U	5U	5U	1J	390,000
Xylene (Total)	5U	5U	5U	5U	5U	5U	5U	5U	16	500,000
Styrene	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Bromoform	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Isopropylbenzene	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
1,1,2,2-Tetrachloroethane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
1,3,5-Trimethylbenzene	5U	5U	5U	5U	5U	5U	5U	5U	2J	190,000
1,2,4-Trimethylbenzene	5U	5U	5U	5U	5U	5U	5U	5U	5J	190,000
1,3-Dichlorobenzene	5U	5U	5U	5U	5U	5U	5U	5U	6U	280,000
1,4-Dichlorobenzene	5U	5U	5U	5U	5U	5U	5U	5U	6U	130,000
1,2-Dichlorobenzene	5U	5U	5U	5U	5U	5U	5U	5U	6U	500,000
1,2-Dibromo-3-chloropropane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
1,2,4-Trichlorobenzene	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
1,1,2-Trichloro-1,2,2-trifluor	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Methyl Acetate	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Cyclohexane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG
Methylcyclohexane	5U	5U	5U	5U	5U	5U	5U	5U	6U	NVG

Notes:

J- Detection under laboratory detection limits

U- Not detected at or above laboratory detection limits.

NVG - No Value Given.

*GP-X (3-4) is a duplicate of GP-2 (3-4)

Detections shown in bold

Table 2

Analytical Results for Semi-Volatile Organic Compounds in Soil Borings Spring 2007

Empire State Varnish
38 Varick Street, Brooklyn, New York

Sample ID Depth in Feet Date Sampled	GP-1 (3-4) 5/10/2007	GP-2 (3-4) 5/10/2007	GP-X* (3-4) 5/10/2007	GP-3 (2,5-3) 5/10/2007	GP-4 4.5 5/10/2007	GP-4 10 5/10/2007	GP-5 (4-5) 5/10/2007	GP-6 (4-5) 5/10/2007	GP-6 10 5/10/2007	NYSDEC Restricted- Commercial Part 375
Semi-Volatile Organic Compounds										UG/KG
Units	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Phenol	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	500,000
bis(2-Chloroethyl)Ether	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
2-Chlorophenol	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
2-Methylphenol	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	500,000
2,2'-oxybis(1-Chloropropane)	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
4-Methylphenol	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
N-Nitroso-di-n-propylmine	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Hexachloroethane	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Nitrobenzene	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Isophorone	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
2-Nitrophenol	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
2,4-Dimethylphenol	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
2,4-Dichlorophenol	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
1,2,4-Trichlorobenzene	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Naphthalene	370 U	106 J	68.7 J	320 U	354 U	360 U	348 U	350 U	411 U	500,000
4-Chloroaniline	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Hexachlorobutadiene	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
bis(2-Chloroethoxy)methane	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
4-Chloro-3-Methylphenol	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
2-Methylnaphthalene	370 U	53.4 J	90.0 J	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Hexachlorocyclopentadiene	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
2,4,6-Trichlorophenol	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
2,4,5-Trichlorophenol	760 U	762 U	765 U	660 U	718 U	731 U	706 U	700 U	835 U	NVG
2-Chloronaphthalene	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
2-Nitroaniline	760 U	762 U	765 U	660 U	718 U	731 U	706 U	700 U	835 U	NVG
Dimethylphthalate	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Acenaphthylene	370 U	82.3 J	89.5 J	320 U	354 U	360 U	348 U	350 U	411 U	500,000
2,6-Dinitrotoluene	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
3-Nitroaniline	760 U	762 U	765 U	660 U	718 U	731 U	706 U	700 U	835 U	NVG
Acenaphthene	370 U	189 J	89.3 J	320 U	354 U	360 U	348 U	350 U	411 U	500,000
2,4-Dinitrophenol	760 U	762 U	765 U	660 U	718 U	731 U	706 U	700 U	835 U	NVG
4-Nitrophenol	760 U	762 U	765 U	660 U	718 U	731 U	706 U	700 U	835 U	NVG
Dibenzofuran	370 U	157 J	75.1 J	320 U	354 U	360 U	348 U	350 U	411 U	350,000
2,4-Dinitrotoluene	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Diethylphthalate	370 U	468	77.3 J	320 U	107 J	360 U	348 U	350 U	411 U	NVG
4-Chlorophenyl-phenylether	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Fluorene	370 U	171 J	74.9 J	320 U	354 U	360 U	706 U	350 U	411 U	500,000
4-Nitroaniline	760 U	762 U	765 U	660 U	718 U	731 U	706 U	700 U	835 U	NVG
4,6-Dinitro-2-methylphenol	760 U	762 U	765 U	660 U	718 U	731 U	348 U	700 U	835 U	NVG
N-Nitrosodiphenylamine_(1)	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
4-Bromophenyl-phenylether	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Hexachlorobenzene	370 U	376 U	377 U	320 U	354 U	360 U	706 U	350 U	411 U	6,000
Pentachlorophenol	760 U	762 U	765 U	660 U	718 U	731 U	348 U	700 U	835 U	6,700
Phenanthrene	370 U	3,000	1,420	320 U	189 J	360 U	348 U	350 U	411 U	500,000
Anthracene	370 U	496	281 J	320 U	41.5 J	360 U	348 U	350 U	411 U	500,000
Carbazole	370 U	248 J	134 J	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Di-n-butyl phthalate	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Fluoranthene	370 U	4,770	3,340	320 U	355	360 U	348 U	47 J	411 U	500,000
Pyrene	370 U	4,320	2,920	320 U	360	360 U	348 U	49 J	411 U	500,000
Butylbenzylphthalate	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
3,3'-Dichlorobenzidine	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Benzo (a) anthracene	370 U	2,680	1,820	320 U	205 J	360 U	348 U	350 U	411 U	5,600
Chrysene	370 U	2,880	1,750	320 U	202 J	360 U	348 U	350 U	411 U	56,000
bis(2-Ethylhexyl)phthalate	120 JB	223 JB	340 JB	420 B	232 JB	243 JB	184 JB	110 JB	281 JB	NVG
Di-n-octylphthalate	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Benzo(b)fluoranthene	370 U	3,950	2,610	40 J	287 J	360 U	348 U	350 U	411 U	5,600
Benzo(k)fluoranthene	370 U	1,300	866	320 U	94.0 J	360 U	348 U	350 U	411 U	56,000
Benzo(a)pyrene	370 U	2,850	1,770	320 U	200 J	360 U	348 U	350 U	411 U	1,000
Indeno(1,2,3-cd)pyrene	370 U	1,600	1,100	320 U	125 J	360 U	348 U	350 U	411 U	5,600
Dibenzo(a,h)anthracene	370 U	543	332 J	320 U	354 U	360 U	348 U	350 U	411 U	560
Benzo(g,h,i)perylene	370 U	1,990	1,310	320 U	354 U	360 U	348 U	350 U	411 U	500,000
1,1'-Biphenyl	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Acentophenone	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	500,000
Atrazine	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Benzaldehyde	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG
Caprolactam	370 U	376 U	377 U	320 U	354 U	360 U	348 U	350 U	411 U	NVG

Notes:
 U- Not detected at or above laboratory detection limits.
 NVG - No Value Given.
 B - Compound detected in laboratory method blank
 J- Detection under laboratory detection limits
 *GP-X (3-4) is a duplicate of GP-2 (3-4)

Detections shown in bold

1,310

Bold and boxed indicates value is above the NYSDEC Part 375 Restricted Commercial Cleanup Value

Table 3

Analytical Results for Metals in Soil Borings Spring 2007

Empire State Varnish
38 Varick Street, Brooklyn, New York

Sample ID	GP-1	GP-2	GP-X*	GP-3	GP-4	GP-4	GP-5	GP-6	GP-6	NYSDEC	Eastern
Depth in Feet	(3-4)	(3-4)	(3-4)	(2.5-3)	4.5	10	(4-5)	(4-5)	10	Restricted-Commercial	U.S.A.
Date Sampled	5/10/2007	5/10/2007	5/10/2007	5/10/2007	5/10/2007	5/10/2007	5/10/2007	5/10/2007	5/10/2007	Part 375	Background
Heavy Metals											
Units	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
Arsenic	1.0	0.073 U	22.3	3.3	3.0	0.62 B	0.49 B	4.9	0.24 B	16	3 to 12
Barium	41.5	0.89 B	295	153	49.7	29.1	30	34.5	20.2	400	15 to 600
Cadmium	0.038 B	0.0053 U	2.6	1.8	0.11 B	0.0055 B	0.0050 U	0.089 B	0.0049 U	9.3	0.1 to 1
Chromium	13.2 E	23.4 E	48.2 E	20.7 E	9.1 E	12.3 E	9.1 E	8.8 E	6.9 E	NVG	1.5 to 40
Lead	10.5 E	0.99 E	691 E	98.1 E	52.6 E	8.3 E	7.7 E	26.5 E	6.4 E	1,000	**
Mercury	0.0077 U	0.70	0.67	0.19	0.14	0.0076 U	0.0067 U	0.058	0.0085 U	2.8	0.001 to 0.2
Selenium	0.046 U	0.064 U	0.069 U	0.071 U	0.038 U	0.050 U	0.061 U	0.037 U	0.060 U	1,500	0.1 to 3.9
Silver	0.38 B	0.055 B	2.1	0.77 B	0.30 B	0.43 B	0.28 B	0.29 B	0.26 B	1,500	NA

Notes:

MG/KG - milligram per kilogram or parts per million

NVG- No value Given

*GP-X (3-4) is a duplicate of GP-2 (3-4)

U- Not detected at or above laboratory detection limits.

NA - Not Available

SB - Site Background

Bold indicates compound is above both eastern U.S.A. background and NYSDEC Restricted Commercial Limits.

E-Serial Dilution

B- Result is between Method Detection Limit and Practical Quantitation Limit

** Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

Table 4

Analytical Results for Volatile Organic Compounds in Soil Endpoint Samples
 Empire State Varnish
 38 Varick Street, Brooklyn, New York

Sample ID	Bottom#1	Bottom#2	Bottom#2	BottomX	North Wall E	North Wall W	North Wall W	West Wall N	West Wall N	West Wall S	West Wall S	NYSDEC Part 375
Depth in Feet	13	11	15.5	11	6	6.5	3ft-5ft	6.8	3ft-5ft	6.5	3ft-5ft	Restricted
Date Sampled	10/4/2007	10/4/2007	10/15/2007	10/4/2007	10/4/2007	10/4/2007	10/16/2007	10/4/2007	10/16/2007	10/4/2007	10/16/2007	Commercial
Volatile Organic Compounds												
Units	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Dichlorodifluoromethane	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
Chloromethane	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
Vinyl Chloride	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	13,000
Bromomethane	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
Chloroethane	6U	2J	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
Trichlorofluoromethane	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
1,1-Dichloroethane	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	240,000
Acetone	6U	24	2900U	41	5U	5U	4J	6U	520DJ	6U	6U	500,000
Carbon Disulfide	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
Methylene Chloride	6U	1J	2900U	15U	5U	5U	2J	6U	280DJ	4J	6U	500,000
trans-1,2-Dichloroethene	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	500,000
Methyl tert-butyl ether	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	500,000
1,1-Dichloroethene	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	500,000
2-Butanone	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	500,000
cis-1,2-Dichloroethene	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	500,000
Chloroform	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	350,000
1,1,1-Trichloroethane	6U	6U	2900U	15U	5U	5U	1J	6U	1300U	6U	6U	500,000
Carbon Tetrachloride	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	22,000
1,2-Dichloroethane	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	30,000
Benzene	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	44,000
Trichloroethene	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	200,000
1,2-Dichloropropane	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
Bromodichloromethane	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
cis-1,3-Dichloropropene	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
4-Methyl-2-pentanone	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
Toluene	6U	180	96,000D	280	5U	5U	4J	6U	950DJ	6U	6U	500,000
trans-1,3-Dichloropropene	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
1,1,2-Trichloroethane	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
Tetrachloroethene	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	150,000
2-Hexanone	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
Dibromochloromethane	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
1,2-Dibromoethane	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
Chlorobenzene	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	500,000
Ethylbenzene	6U	8	2,900DJ	15	5U	5U	5U	6U	450DJ	6U	6U	390,000
Xylene (Total)	6U	72	13,000D	150	5U	5U	5U	6U	41,000D	6U	6U	500,000
Styrene	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
Bromoform	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
Isopropylbenzene	6U	2J	640DJ	3J	5U	5U	5U	6U	950DJ	6U	6U	NVG
1,1,2,2-Tetrachloroethane	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
1,3,5-Trimethylbenzene	6U	12	2900U	40	5U	5U	5U	6U	1300U	6U	6U	190,000
1,2,4-Trimethylbenzene	6U	12	2900U	49	5U	5U	5U	6U	1300U	6U	6U	190,000
1,3-Dichlorobenzene	6U	5U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	280,000
1,4-Dichlorobenzene	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	130,000
1,2-Dichlorobenzene	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	500,000
1,2-Dibromo-3-chloropropane	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
1,2,4-Trichlorobenzene	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
1,1,2-Trichloro-1,2,2-trifluor	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
Methyl Acetate	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
Cyclohexane	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG
Methylcyclohexane	6U	6U	2900U	15U	5U	5U	5U	6U	1300U	6U	6U	NVG

Notes:

J- Detection under laboratory detection limits

U- Not detected at or above laboratory detection limits.

D - Result was reported in a Diluted Sampled.

NVG - No Value Given.

UG/KG= micrograms per kilogram or parts per billion

UG/L = micrograms per liter or parts per billion

Detections Shown in Bold

*Bottom X is a field duplicate of Bot#2

Table 4										
Analytical Results for Volatile Organic Compounds in Soil Endpoint Samples										
Empire State Varnish										
38 Varick Street, Brooklyn, New York										
Sample ID	B1 (13 FT)	B2 (13 FT)	B3 (11 FT)	B4 (11 FT)	B5 (9 FT)	East Wall 1	XWALLX	East Wall 2	East Wall 3	NYSDEC
Depth in Feet	13	13	11	11	9	3-5 ft	3-5 ft	3-5 ft	3-5 ft	Restricted-Commercial
Date Sampled	10/23/2007	10/23/2007	10/24/2007	10/24/2007	10/24/2007	10/23/2007	10/23/2007	10/23/2007	10/23/2007	Part 375
Volatile Organic Compounds										
Units	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/KG	UG/L	UG/KG
Dichlorodifluoromethane	6U	5U	18U	1400U	5U	6U	6U	6U	5U	NVG
Chloromethane	6U	5U	18U	1400U	5U	6U	6U	6U	5U	NVG
Vinyl Chloride	6U	5U	18U	1400U	5U	6U	6U	6U	5U	13,000
Bromomethane	6U	5U	18U	1400U	5U	6U	6U	6U	5U	NVG
Chloroethane	6U	5U	8J	1400U	5U	6U	6U	6U	5U	NVG
Trichlorofluoromethane	6U	5U	18U	1400U	5U	6U	6U	6U	5U	NVG
1,1-Dichloroethane	6U	5U	18U	1400U	5U	1J	6U	6U	5U	240,000
Acetone	30	15	53	1400U	5U	3J	6U	6U	1J	500,000
Carbon Disulfide	2J	5U	4J	1400U	5U	6U	6U	6U	5U	NVG
Methylene Chloride	6U	1J	8J	1400U	5U	2J	1J	1J	2J	500,000
trans-1,2-Dichloroethene	6U	5U	18U	1400U	5U	6U	6U	6U	5U	500,000
Methyl tert-butyl ether	6U	5U	18U	1400U	5U	6U	6U	6U	5U	500,000
1,1-Dichloroethene	6U	5U	18U	1400U	5U	3J	4J	6U	5U	500,000
2- Butanone	7	5U	20	1400U	5U	6U	6U	6U	5U	500,000
cis-1,2-Dichloroethene	6U	5U	18U	1400U	5U	6U	6U	6U	5U	500,000
Chloroform	6U	5U	18U	1400U	5U	6U	6U	6U	5U	350,000
1,1,1-Trichloroethane	6U	5U	18U	1400U	5U	48	52	6U	2J	500,000
Carbon Tetrachloride	6U	5U	18U	1400U	5U	6U	6U	6U	5U	22,000
1,2-Dichloroethane	6U	5U	18U	1400U	5U	6U	6U	6U	5U	30,000
Benzene	6U	5U	18U	1400U	5U	6U	6U	6U	5U	44,000
Trichloroethene	6U	5U	18U	1400U	5U	6U	6U	6U	5U	200,000
1,2-Dichloropropane	6U	5U	18U	1400U	5U	6U	6U	6U	5U	NVG
Bromodichloromethane	6U	5U	18U	1400U	5U	6U	6U	6U	5U	NVG
cis-1,3-Dichloropropene	6U	5U	18U	1400U	5U	6U	6U	6U	5U	NVG
4-Methyl-2-pentanone	6U	5U	18U	1400U	5U	6U	6U	6U	5U	NVG
Toluene	6U	5U	5JB	1400U	1JB	6U	6U	2JB	2JB	500,000
trans-1,3-Dichloropropane	6U	5U	18U	1400U	5U	6U	6U	6U	5U	NVG
1,1,2-Trichloroethane	6U	5U	240	1400U	5U	6U	6U	6U	5U	NVG
Tetrachloroethene	6U	5U	18U	1400U	5U	6U	6U	6U	5U	150,000
2-Hexanone	6U	5U	690	1400U	5U	6U	6U	6U	5U	NVG
Dibromochloromethane	6U	5U	18U	1400U	5U	6U	6U	6U	5U	NVG
1,2-Dibromoethane	6U	5U	18U	1400U	5U	6U	6U	6U	5U	NVG
Chlorobenzene	6U	5U	18U	1400U	5U	6U	6U	6U	5U	500,000
Ethylbenzene	6U	5U	18U	1400U	5U	6U	6U	6U	5U	390,000
Xylene (Total)	6U	5U	18U	1400U	5U	6U	6U	6U	5U	500,000
Styrene	6U	5U	18	1400U	5U	6U	6U	6U	5U	NVG
Bromoform	6U	5U	18U	1400U	5U	6U	6U	6U	5U	NVG
Isopropylbenzene	6J	5U	480	1400U	5U	6U	6U	6U	5U	NVG
1,1,2,2-Tetrachloroethane	6U	5U	18U	1400U	5U	6U	6U	6U	5U	NVG
1,3,5-Trimethylbenzene	6U	5U	18U	1400U	5U	6U	6U	6U	5U	190,000
1,2,4-Trimethylbenzene	6U	5U	18U	1400U	5U	6U	6U	6U	5U	190,000
1,3-Dichlorobenzene	6U	5U	18U	1400U	5U	6U	6U	6U	5U	280,000
1,4-Dichlorobenzene	6U	5U	18U	1400U	5U	6U	6U	6U	5U	130,000
1,2-Dichlorobenzene	6U	5U	18U	1400U	5U	6U	6U	6U	5U	500,000
1,2-Dibromo-3-chloropropane	6U	5U	18U	1400U	5U	6U	6U	6U	5U	NVG
1,2,4-Trichlorobenzene	6U	5U	18U	1400U	5U	6U	6U	6U	5U	NVG
1,1,2-Trichlo-1,2,2-trifluor	6U	5U	18U	1400U	5U	6U	6U	6U	5U	NVG
Methyl Acetate	6U	5U	18U	1400U	5U	6U	6U	6U	5U	NVG
Cyclohexane	6U	5U	7J	1400U	5U	6U	6U	6U	5U	NVG
Methylcyclohexane	6U	5U	130	380DJ	5U	6U	6U	6U	5U	NVG
Notes:										
J- Detection under laboratory detection limits										
U- Not detected at or above laboratory detection limits.										
NVG - No Value Given.										
*Bottom X is a duplicate of Bot #, XWallX is a duplicate of East Wall 1										
UG/KG= micrograms per kilogram or parts per billion										
UG/L = micrograms per liter or parts per billion										

Table 4						
Analytical Results for Volatile Organic Compounds in Soil Endpoint Samples						
Empire State Varnish						
38 Varick Street, Brooklyn, New York						
Sample ID Depth in Feet Date Sampled	N Wall (3-5 FT) 3-5 ft 10/24/2007	SE Wall (3-5FT) 3-5 ft 10/23/2007	SE Wall (8FT) 8 10/23/2007	SW Wall (8FT) 8 10/23/2007	WS WALL 5 ft 10/23/2007	NYSDEC Restricted- Commercial Part 375
Volatile Organic Compounds						
Units	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Dichlorodifluoromethane	6U	5U	6U	6U	6U	NVG
Chloromethane	6U	5U	6U	6U	6U	NVG
Vinyl Chloride	6U	5U	6U	6U	6U	13,000
Bromomethane	6U	5U	6U	6U	6U	NVG
Chloroethane	6U	5U	6U	6U	6U	NVG
Trichlorofluoromethane	6U	5U	6U	6U	6U	NVG
1,1-Dichloroethane	6U	5U	6U	6U	6U	240,000
Acetone	6U	18	6U	11	6U	500,000
Carbon Disulfide	6U	5U	6U	6U	6U	NVG
Methylene Chloride	2J	5U	6U	6U	1J	500,000
trans-1,2-Dichloroethene	6U	5U	6U	6U	6U	500,000
Methyl tert-butyl ether	6U	5U	6U	6U	6U	500,000
1,1-Dichloroethene	6U	110	1J	2J	6U	500,000
2- Butanone	6U	5U	6U	6U	6U	500,000
cis-1,2-Dichloroethene	6U	5U	6U	6U	6U	500,000
Chloroform	6U	5U	6U	6U	6U	350,000
1,1,1-Trichloroethane	3J	160	2J	6U	6	500,000
Carbon Tetrachloride	6U	5U	6U	6U	6U	22,000
1,2-Dichloroethane	6U	5U	6U	6U	6U	30,000
Benzene	6U	5U	6U	6U	6U	44,000
Trichloroethene	6U	26	6U	6U	6U	200,000
1,2-Dichloropropane	6U	5U	6U	6U	6U	NVG
Bromodichloromethane	6U	5U	6U	6U	6U	NVG
cis-1,3-Dichloropropene	6U	5U	6U	6U	6U	NVG
4-Methyl-2-pentanone	6U	5U	6U	6U	6U	NVG
Toluene	1JB	5U	6U	6U	6U	500,000
trans-1,3-Dichloropropene	6U	5U	6U	6U	6U	NVG
1,1,2-Trichloroethane	6U	5U	6U	6U	6U	NVG
Tetrachloroethene	5J	5U	6U	6U	6U	150,000
2-Hexanone	6U	5U	6U	6U	6U	NVG
Dibromochloromethane	6U	5U	6U	6U	6U	NVG
1,2-Dibromoethane	6U	5U	6U	6U	6U	NVG
Chlorobenzene	6U	5U	6U	6U	6U	500,000
Ethylbenzene	6U	4J	6U	6U	6U	390,000
Xylene (Total)	6U	16	6U	6U	6U	500,000
Styrene	6U	5U	6U	6U	6U	NVG
Bromoform	6U	5U	6U	6U	6U	NVG
Isopropylbenzene	6U	5J	6U	6U	6U	NVG
1,1,2,2-Tetrachloroethane	6U	5U	6U	6U	6U	NVG
1,3,5-Trimethylbenzene	6U	19	6U	6U	6U	190,000
1,2,4-Trimethylbenzene	6U	90	6U	6U	6U	190,000
1,3-Dichlorobenzene	6U	5U	6U	6U	6U	280,000
1,4-Dichlorobenzene	6U	5U	6U	6U	6U	130,000
1,2-Dichlorobenzene	6U	5U	6U	6U	6U	500,000
1,2-Dibromo-3-chloropropane	6U	5U	6U	6U	6U	NVG
1,2,4-Trichlorobenzene	6U	5U	6U	6U	6U	NVG
1,1,2-Trichloro-1,2,2-trifluor	6U	5U	6U	6U	6U	NVG
Methyl Acetate	6U	5U	6U	6U	6U	NVG
Cyclohexane	6U	5U	6U	6U	6U	NVG
Methylcyclohexane	6U	5U	6U	6U	6U	NVG
Notes: J- Detection under laboratory detection limits U- Not detected at or above laboratory detection limits. NVG - No Value Given. *Bottom X is a duplicate of Bot # 2 UG/KG= micrograms per kilogram or parts per billion UG/L = micrograms per liter or parts per billion						

Table 4										
Analytical Results for Volatile Organic Compounds in Soil Endpoint Samples										
Empire State Varnish										
38 Varick Street, Brooklyn, New York										
Sample ID	Trip Blank	FB 10/4	TB-1	FB 10/16	Trip Blank	FB 10/23	TB-3	FB 10/24	TB-4	NYSDEC
Depth in Feet	NA	NA	NA	NA	NA	NA	NA	NA	NA	Restricted- Commercial
Date Sampled	10/4/2007	10/4/2007	10/4/2007	10/16/2007	10/16/2007	10/23/2007	10/23/2007	10/24/2007	10/24/2007	Part 375
Volatile Organic Compounds										
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/KG
Dichlorodifluoromethane	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
Chloromethane	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
Vinyl Chloride	5U	5U	5U	5U	5U	5U	5U	5U	5U	13,000
Bromomethane	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
Chloroethane	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
Trichlorofluoromethane	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
1,1-Dichloroethane	5U	5U	5U	5U	5U	5U	5U	5U	5U	240,000
Acetone	5U	5U	5U	5U	5U	5U	5U	5U	5U	500,000
Carbon Disulfide	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
Methylene Chloride	5U	5U	5U	5U	5U	5U	5U	2J	5U	500,000
trans-1,2-Dichloroethene	5U	5U	5U	5U	5U	5U	5U	5U	5U	500,000
Methyl tert-butyl ether	5U	5U	5U	5U	5U	5U	5U	5U	5U	500,000
1,1-Dichloroethene	5U	5U	5U	5U	5U	5U	5U	5U	5U	500,000
2- Butanone	5U	5U	5U	5U	5U	5U	5U	5U	5U	500,000
cis-1,2-Dichloroethene	5U	5U	5U	5U	5U	5U	5U	5U	5U	500,000
Chloroform	5U	5U	5U	5U	5U	5U	5U	5U	5U	350,000
1,1,1-Trichloroethane	5U	5U	5U	5U	5U	5U	5U	5U	5U	500,000
Carbon Tetrachloride	5U	5U	5U	5U	5U	5U	5U	5U	5U	22,000
1,2-Dichloroethane	5U	5U	5U	5U	5U	5U	5U	5U	5U	30,000
Benzene	5U	5U	5U	5U	5U	5U	5U	5U	5U	44,000
Trichloroethene	5U	5U	5U	5U	5U	5U	5U	5U	5U	200,000
1,2-Dichloropropane	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
Bromodichloromethane	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
cis-1,3-Dichloropropene	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
4-Methyl-2-pentanone	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
Toluene	5U	5U	5U	5U	5U	5U	5U	5U	5U	500,000
trans-1,3-Dichloropropene	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
1,1,2-Trichloroethane	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
Tetrachloroethene	5U	5U	5U	5U	5U	5U	5U	5U	5U	150,000
2-Hexanone	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
Dibromochloromethane	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
1,2-Dibromoethane	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
Chlorobenzene	5U	5U	5U	5U	5U	5U	5U	5U	5U	500,000
Ethylbenzene	5U	5U	5U	5U	5U	5U	5U	5U	5U	390,000
Xylene (Total)	5U	5U	5U	5U	5U	5U	5U	5U	5U	500,000
Styrene	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
Bromoform	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
Isopropylbenzene	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
1,1,2,2-Tetrachloroethane	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
1,3,5-Trimethylbenzene	5U	5U	5U	5U	5U	5U	5U	5U	5U	190,000
1,2,4-Trimethylbenzene	5U	5U	5U	5U	5U	5U	5U	5U	5U	190,000
1,3-Dichlorobenzene	5U	5U	5U	5U	5U	5U	5U	5U	5U	280,000
1,4-Dichlorobenzene	5U	5U	5U	5U	5U	5U	5U	5U	5U	130,000
1,2-Dichlorobenzene	5U	5U	5U	5U	5U	5U	5U	5U	5U	500,000
1,2-Dibromo-3-chloropropane	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
1,2,4-Trichlorobenzene	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
1,1,2-Trichloro-1,2,2-trifluor	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
Methyl Acetate	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
Cyclohexane	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
Methylcyclohexane	5U	5U	5U	5U	5U	5U	5U	5U	5U	NVG
Notes:										
J- Detection under laboratory detection limits										
U- Not detected at or above laboratory detection limits.										
D - Result was reported in a Diluted Sampled.										
NVG - No Value Given.										
UG/KG = micrograms per kilogram or parts per billion										
UG/L = micrograms per liter or parts per billion										

Table 4										
Analytical Results for Volatile Organic Compounds in Soil Endpoint Samples										
Empire State Varnish										
38 Varick Street, Brooklyn, New York										
Sample ID	Fume A	Fume B	Fume C	Fume Bot	X Bot X*	Pipes	FB 11/16	FB 11/19	TB	NYSDEC Part 375
Depth in Feet	2 ft.	2 ft.	2 ft.	2 ft.		5 in.	NA	NA	NA	Restricted
Date Sampled	11/16/2007	11/16/2007	11/16/2007	11/16/2007	11/16/2007	11/19/2007	11/16/2007	11/19/2007	11/19/2007	Commercial
Volatile Organic Compounds										
Units	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/L	UG/L	UG/KG
Dichlorodifluoromethane	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
Chloromethane	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
Vinyl Chloride	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	13,000
Bromomethane	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
Chloroethane	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
Trichlorofluoromethane	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
1,1-Dichloroethane	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	240,000
Acetone	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	500,000
Carbon Disulfide	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
Methylene Chloride	5 U	6 U	5 U	6 U	7 U	6 U	5 U	4 J	5 U	500,000
trans-1,2-Dichloroethene	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	500,000
Methyl tert-butyl ether	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	500,000
1,1-Dichloroethene	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	500,000
2- Butanone	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	500,000
cis-1,2-Dichloroethene	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	500,000
Chloroform	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	350,000
1,1,1-Trichloroethane	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	500,000
Carbon Tetrachloride	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	22,000
1,2-Dichloroethane	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	30,000
Benzene	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	44,000
Trichloroethene	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	200,000
1,2-Dichloropropane	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
Bromodichloromethane	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
cis-1,3-Dichloropropene	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
4-Methyl-2-pentanone	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
Toluene	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	500,000
trans-1,3-Dichloropropane	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
1,1,2-Trichloroethane	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
Tetrachloroethene	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	150,000
2-Hexanone	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
Dibromochloromethane	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
1,2-Dibromoethane	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
Chlorobenzene	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	500,000
Ethylbenzene	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	390,000
Xylene (Total)	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	500,000
Styrene	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
Bromoform	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
Isopropylbenzene	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
1,1,2,2-Tetrachloroethane	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
1,3,5-Trimethylbenzene	5 U	6 U	5 U	6 U	7 U	8	5 U	5 U	5 U	190,000
1,2,4-Trimethylbenzene	5 U	6 U	5 U	6 U	7 U	4 J	5 U	5 U	5 U	190,000
1,3-Dichlorobenzene	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	280,000
1,4-Dichlorobenzene	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	130,000
1,2-Dichlorobenzene	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	500,000
1,2-Dibromo-3-chloropropane	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
1,2,4-Trichlorobenzene	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
1,1,2-Trichlo-1,2,2-trifluor	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
Methyl Acetate	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
Cyclohexane	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
Methylcyclohexane	5 U	6 U	5 U	6 U	7 U	6 U	5 U	5 U	5 U	NVG
Notes:										
J- Detection under laboratory detection limits										
U- Not detected at or above laboratory detection limits.										
NVG - No Value Given.										
UG/KG= micrograms per kilogram or parts per billion										
UG/L = micrograms per liter or parts per billion										
Detections Shown In Bold										
*X Bot X is duplicate of Fume Bot										
NA= Not Applicable										

Table 5

Analytical Results for Semi-Volatile Organic Compounds in Soil Endpoint Samples

Empire State Varnish
38 Varick Street, Brooklyn, New York

Sample ID Depth in Feet Date Sampled	Bottom #1 13 10/4/2007	Bottom #2 11 10/4/2007	Bottom #2 15.5 10/15/2007	Bottom X 11 10/4/2007	North Wall E 6 10/4/2007	North Wall W 6.5 10/4/2007	North Wall W 3-5ft 10/16/2007	West Wall N 6.8 10/4/2007	West Wall N 3ft-5ft 10/16/2007	West Wall S 6.5 10/4/2007	West Wall S 3ft-5ft 10/16/2007	FB 10/4 NA 10/4/2007	NYSDEC Restricted Commercial Part 375
Semi-Volatile Organic Compounds													
Units	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/L	UG/KG
Phenol	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	100U	500,000
bis(2-Chloroethyl)Ether	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	100U	NVG
2-Chlorophenol	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	100U	NVG
2-Methylphenol	390 U	780 U	410U	70 J	360 U	730 U	750U	370 U	380U	360 U	400U	100U	500,000
2,2'-oxybis(1-Chloropropane)	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	100U	NVG
4-Methylphenol	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	100U	NVG
N-Nitroso-di-n-propylmine	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	100U	NVG
Hexachloroethane	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	100U	NVG
Nitrobenzene	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	100U	NVG
Isophorone	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	100U	NVG
2-Nitrophenol	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	100U	NVG
2,4-Dimethylphenol	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	2,200	360 U	400U	100U	NVG
2,4-Dichlorophenol	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	100U	NVG
Naphthalene	390 U	450 J	4,200	270 J	360 U	200 J	260J	38 J	3,700	360 U	400U	100U	500,000
4-Chloroaniline	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	100U	NVG
Hexachlorobutadiene	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	100U	NVG
bis(2-Chloroethoxy)methane	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	100U	NVG
4-Chloro-3-Methylphenol	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	100U	NVG
2-Methylnaphthalene	390 U	260 J	1,200	140 J	360 U	94 J	210J	370 U	2,200	360 U	400U	100U	NVG
Hexachlorocyclopentadiene	390 U	60 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	100U	NVG
2,4,6-Trichlorophenol	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	200U	NVG
2,4,5-Trichlorophenol	800 U	1,600 U	840U	790 U	730 U	1,500 U	1,500 U	750 U	780U	740 U	20 U	200U	NVG
2-Chloronaphthalene	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	100U	NVG
2-Nitroaniline	800 U	1,600 U	840U	790 U	730 U	1,500 U	1,500 U	750 U	780U	740 U	400U	100U	NVG
Dimethylphthalate	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	100U	NVG
Acenaphthylene	390 U	140 J	61J	150 J	360 U	170 J	95J	70 J	380U	360 U	400U	100U	500,000
2,6-Dinitrotoluene	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	100U	NVG
3-Nitroaniline	800 U	1,600 U	840U	790 U	730 U	1,500 U	1500U	750 U	780U	740 U	400U	100U	NVG
Acenaphthene	390 U	940	370J	300 J	51 J	330 J	370J	370 U	380U	130 J	800U	200U	500,000
2,4-Dinitrophenol	800 U	1,600 U	840U	790 U	730 U	1,500 U	1500U	750 U	780U	740 U	400U	200U	NVG
4-Nitrophenol	800 U	1,600 U	840U	790 U	730 U	1,500 U	1500U	750 U	780U	740 U	800U	200U	NVG

Notes:

U- Not detected at or above laboratory detection limits.

NVG - No Value Given.

Detections shown in bold

J- Detection under laboratory detection limits

*Bottom X is a duplicate of Bot #2

Bold and boxed indicates value is above the NYSDEC Part 375 Restricted Commercial Cleanup Value

Sample ID Depth in Feet Date Sampled	Bottom #1 13 10/4/2007	Bottom 2 11 10/4/2007	Bottom #2 15.5 10/15/2007	Bottom X 11 10/4/2007	North Wall E 6 10/4/2007	North Wall W 6.5 10/4/2007	North Wall W 3-5ft 10/16/2007	West Wall N 6.8 10/4/2007	West Wall N 3ft-5ft 10/16/2007	West Wall S 6.5 10/4/2007	West Wall S 3ft-5ft 10/16/2007	FB 10/4 NA 10/4/2007	NYSDEC Restricted Commercial Part 375
Semi-Volatile Organic Compounds	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/KG
Units	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/KG
Dibenzofuran	390 U	640 J	200J	230 J	360 U	280 J	330J	370 U	380U	38 J	400U	10 U	350,000
2,4-Dinitrotoluene	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	10 U	NVG
Diethylphthalate	390 U	780 U	220J	390 U	360 U	730U	750U	370 U	380U	360 U	400U	10 U	NVG
4-Chlorophenyl-phenylether	390 U	780 U	410U	390 U	360 U	730U	750U	370 U	380U	360 U	400U	10 U	NVG
Fluorene	390 U	1,000	380J	330 J	48 J	440 J	460J	42 J	54J	120 J	400U	10 U	500,000
4-Nitroaniline	800 U	1,600 U	840U	790 U	730 U	1,500 U	1500U	750 U	780U	740 U	800U	20 U	NVG
4,6-Dinitro-2-methylphenol	800 U	1,600 U	840U	790 U	730 U	1,500 U	1500U	750 U	780U	740 U	800U	20 U	NVG
N-Nitrosodiphenylamine_(1)	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	10 U	NVG
4-Bromophenyl-phenylether	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	10 U	NVG
Hexachlorobenzene	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	10 U	6,000
Pentachlorophenol	800 U	1,600 U	840U	790 U	730 U	1,500 U	1500U	750 U	780U	740 U	800U	20 U	6,700
Phenanthrene	340 J	8,400	2,700	3,500	620	4,900	6,000	740	230J	1,700	400U	10 U	500,000
Anthracene	88 J	2,000	630	820	130 J	870	1400	190 J	380U	260 J	400U	10 U	500,000
Carbazole	390 U	930	44J	310 J	64 J	540 J	600J	45 J	380U	87 J	400U	10 U	NVG
Di-n-butyl phthalate	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	10 U	NVG
Fluoranthene	470	8,800	2,500	4,500	920	6,600	8,200	1,200	160J	1,600	41J	10 U	500,000
Pyrene	420	6,900	2,500	3,900	840	5,100	6,500	1,100	96J	1,800	43J	10 U	500,000
Butylbenzylphthalate	390 U	780 U	410U	390 U	360 U	730 U	280J	370 U	380U	360 U	400U	10 U	NVG
3,3'-Dichlorobenzidine	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	10 U	NVG
Benzo (a) anthracene	240 J	3,900	1,100	2,300	400	2,300	3,800	670	56J	870	41J	10 U	5,600
Chrysene	200 J	4,100	1,000	2,400	420	2,500	3,600	730	77J	910	44J	10 U	56,000
bis(2-Ethylhexyl)phthalate	130 JB	780 U	410U	140 JB	90 JB	730 U	310J	130 JB	1800	330 JB	83J	10 U	NVG
Di-n-octylphalate	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	10 U	NVG
Benzo(b)fluoranthene	230 J	3,900	920	2,400	400	2,700	3,900	1,000	66J	660	85J	10 U	5,600
Benzo(k)fluoranthene	120 J	1,700	400J	1,000	250 J	1,300	1,600	360 J	380U	360 U	400U	10 U	56,000
Benzo(a)pyrene	190 J	3,200	780	2,000	350 J	2,300	3,000	810	42J	650	62J	10 U	1,000
Indeno(1,2,3-cd)pyrene	110 J	1,800	410J	1,200	200 J	1,300	1,800	590	380U	320 J	66J	10 U	5,600
Dibenzo(a,h)anthracene	390 U	610 J	130J	370 J	55 J	310 J	590J	160 J	380U	110 J	400U	10 U	560
Benzo(g,h,i)perylene	120 J	2,000	480	1,400	270 J	1,500	1,900	730	59J	390	80J	10 U	500,000
1,1'-Biphenyl	390 U	93 J	84J	61 J	360 U	730 U	750U	370 U	210J	360 U	400U	10 U	NVG
Acentophenone	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	10 U	500,000
Atrazine	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	10 U	NVG
Benzaldehyde	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	10 U	NVG
Caprolactam	390 U	780 U	410U	390 U	360 U	730 U	750U	370 U	380U	360 U	400U	10 U	NVG
Notes: U- Not detected at or above laboratory detection limits. NVG - No Value Given. B - Compound detected in laboratory method blank J- Detection under laboratory detection limits Detections shown in bold *Bottom X is a duplicate of Bot #2 Bold and boxed indicates value is above the NYSDEC Part 375 Restricted Commercial Cleanup Value													

Table 5											
Analytical Results for Semi-Volatile Organic Compounds in Soil Endpoint Samples											
Empire State Varnish 38 Varick Street, Brooklyn, New York											
Sample ID Depth in Feet Date Sampled	B1 (13 FT) 13 10/23/2007	B2 (13 FT) 13 10/23/2007	B3 (11 FT) 11 10/24/2007	B4 (11 FT) 11 10/24/2007	B5 (9 FT) 9 10/24/2007	East Wall 1 3-5 ft 10/23/2007	XWALLX 3-5 ft 10/23/2007	East Wall 2 3-5 ft 10/23/2007	East Wall 3 3-5 ft 10/23/2007	FB 10/23 NA 10/23/2007	NYSDEC Restricted Commercial Part 375
Semi-Volatile Organic Compounds											
Units	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/L	UG/KG
Phenol	430 U	370 U	570 U	380U	340U	390U	380U	400U	350U	10 U	500,000
bis(2-Chloroethyl)Ether	430 U	370 U	570 U	380U	340U	390U	380U	400U	350U	10 U	NVG
2-Chlorophenol	430 U	370 U	570 U	380U	340U	390U	380U	400U	350U	10 U	NVG
2-Methylphenol	430 U	370 U	570 U	380U	340U	390U	380U	400U	350U	10 U	500,000
2,2'-oxybis(1-Chloropropane)	430 U	370 U	570 U	380U	340U	390U	380U	400U	350U	10 U	NVG
4-Methylphenol	430 U	370 U	570 U	380U	340U	390U	380U	400U	350U	10 U	NVG
N-Nitroso-di-n-propylmine	430 U	370 U	570 U	380U	340U	390U	380U	400U	350U	10 U	NVG
Hexachloroethane	430 U	370 U	570 U	380U	340U	390U	380U	400U	350U	10 U	NVG
Nitrobenzene	430 U	370 U	570 U	380U	340U	390U	380U	400U	350U	10 U	NVG
Isophorone	430 U	370 U	570 U	380U	340U	390U	380U	400U	350U	10 U	NVG
2-Nitrophenol	430 U	370 U	570 U	380U	340U	390U	380U	400U	350U	10 U	NVG
2,4-Dimethylphenol	430 U	370 U	570 U	380U	340U	390U	380U	400U	350U	10 U	NVG
2,4-Dichlorophenol	430 U	370 U	570 U	380U	340U	390U	380U	400U	350U	10 U	NVG
Naphthalene	430 U	370 U	1,100	740	340U	120 J	150J	120J	350U	10 U	500,000
4-Chloroaniline	430 U	370 U	570 U	380U	340U	390U	380U	400U	350U	10 U	NVG
Hexachlorobutadiene	430 U	370 U	570 U	380U	340U	390U	380U	400U	350U	10 U	NVG
bis(2-Chloroethoxy)methane	430 U	370 U	570 U	380U	340U	390U	380U	400U	350U	10 U	NVG
4-Chloro-3-Methylphenol	430 U	370 U	570 U	380U	340U	390U	380U	400U	350U	10 U	NVG
2-Methylnaphthalene	430 U	370 U	2,700	320J	340U	390U	42J	77J	350U	10 U	NVG
Hexachlorocyclopentadiene	430 U	370 U	570 U	380U	340U	390U	380U	400U	350U	10 U	NVG
2,4,6-Trichlorophenol	430 U	370 U	570 U	380U	340U	800U	380U	400U	350U	10 U	NVG
2,4,5-Trichlorophenol	880 U	750 U	1200 U	780U	700U	390U	780U	810U	720U	20 U	NVG
2-Chloronaphthalene	430 U	370 U	570 U	380U	340U	800U	380U	400U	350U	10 U	NVG
2-Nitroaniline	880 U	750 U	1200 U	780U	700U	390U	780U	810U	720U	20 U	NVG
Dimethylphthalate	430 U	370 U	570 U	380U	340U	78J	380U	400U	350U	10 U	NVG
Acenaphthylene	430 U	370 U	570 U	380U	95J	390U	66J	42J	350U	10 U	500,000
2,6-Dinitrotoluene	430 U	370 U	570 U	380U	340U	800U	380U	400U	350U	10 U	NVG
3-Nitroaniline	880 U	750 U	1200 U	780U	700U	390U	780U	810U	720U	20 U	NVG
Acenaphthene	430 U	370 U	570 U	99J	63J	800U	380U	410	350U	10 U	500,000
2,4-Dinitrophenol	880 U	750 U	1200 U	780U	700U	800U	780U	810U	720U	20 U	NVG
4-Nitrophenol	880 U	750 U	1200 U	780U	700U	40J	780U	810U	720U	20 U	NVG
Notes:											
U- Not detected at or above laboratory detection limits.											
NVG - No Value Given.											
Detections shown in bold											
J- Detection under laboratory detection limits											
*Bottom X is a duplicate of Bot #, XWallX is a duplicate of East Wall 1											
Bold and boxed indicates value is above the NYSDEC Part 375 Restricted Commercial Cleanup Value											

Table 5											
Analytical Results for Semi-Volatile Organic Compounds in Soil Endpoint Samples											
Empire State Varnish 38 Varick Street, Brooklyn, New York											
Sample ID Depth in Feet Date Sampled	B1 (13 FT) 13 10/23/2007	B2 (13 FT) 13 10/23/2007	B3 (11 FT) 11 10/24/2007	B4 (11 FT) 11 10/24/2007	B5 (9 FT) 9 10/24/2007	East Wall 1 3-5 ft 10/23/2007	XWALLX 3-5 ft 10/23/2007	East Wall 2 3-5 ft 10/23/2007	East Wall 3 3-5 ft 10/23/2007	FB 10/23 NA 10/23/2007	NYSDEC Restricted Commercial Part 375
Semi-Volatile Organic Compounds											UG/KG
Units	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Dibenzofuran	430 U	370 U	59J	380U	340U	40J	380U	200J	350U	10U	350,000
2,4-Dinitrotoluene	430 U	370 U	570U	380U	340U	390U	380U	400U	350U	10U	NVG
Diethylphthalate	76 J	370 U	570U	380U	340U	390U	380U	400U	350U	4J	NVG
4-Chlorophenyl-phenylether	430 U	370 U	570U	380U	340U	390U	380U	400U	350U	10U	NVG
Fluorene	430 U	370 U	90J	60J	60J	56J	39J	330J	350U	10U	500,000
4-Nitroaniline	880 U	750 U	1200U	780U	700U	800U	780U	810U	720U	20U	NVG
4,6-Dinitro-2-methylphenol	880 U	750 U	1200U	780U	700U	800U	780U	810U	720U	20U	NVG
N-Nitrosodiphenylamine_(1)	430 U	370 U	570U	380U	340U	390U	380U	400U	350U	10U	NVG
4-Bromophenyl-phenylether	430 U	370 U	570U	380U	340U	390U	380U	400U	350U	10U	NVG
Hexachlorobenzene	430 U	370 U	570U	380U	340U	390U	380U	400U	350U	10U	6,000
Pentachlorophenol	880 U	750 U	1200U	780U	700U	800U	780U	810U	720U	20U	6,700
Phenanthrene	82 J	52 J	62J	460	810	790	650	2,800	250J	10U	500,000
Anthracene	430 U	370 U	570U	100J	210J	160J	110J	790	95J	10U	500,000
Carbazole	430 U	370 U	570U	380U	94J	71J	52J	300J	350U	10U	NVG
Di-n-butyl phthalate	430 U	370 U	570U	380U	340U	390U	380U	400U	350U	10U	NVG
Fluoranthene	170 J	100 J	570U	940	1,700	1,600	1,500	3,100	780	10U	500,000
Pyrene	170 J	92 J	570U	890	1,600	1,200	1,100	2,800	770	10U	500,000
Butylbenzylphthalate	430 U	370 U	570U	380U	340U	390U	380U	400U	350U	10U	NVG
3,3'-Dichlorobenzidine	430 U	370 U	570U	380U	340U	390U	380U	400U	350U	10U	NVG
Benzo (a) anthracene	83 J	46 J	570U	440	850U	990	1,100	1400	560	10U	5,600
Chrysene	92 J	50 J	570U	440	1,000	1,600	1,800	1400	620	10U	56,000
bis(2-Ethylhexyl)phthalate	430 U	58 J	570U	380U	50J	1,600	50J	59J	47J	10U	NVG
Di-n-octylphthalate	430 U	370 U	570U	380U	340U	390U	380U	400U	350U	10U	NVG
Benzo(b)fluoranthene	98 J	40 J	570U	630	1,200	390U	3,500	1,600	840	10U	5,600
Benzo(k)fluoranthene	430 U	370 U	570U	220J	530	2,600	1,200	630	340J	10U	56,000
Benzo(a)pyrene	74 J	370 U	570U	450	950	1,200	1,200	1,300	620	10U	1,000
Indeno(1,2,3-cd)pyrene	430 U	370 U	570U	270J	620	1,100	1,800	840	510	10U	5,600
Dibenzo(a,h)anthracene	430 U	370 U	570U	83J	210J	1,300	650	250J	160J	10U	560
Benzo(g,h,i)perylene	56 J	370 U	570U	360J	720	450	2,000	930	560	10U	500,000
1,1'-Biphenyl	430U	370 U	190J	380U	340U	1,500	380U	400U	350U	10U	NVG
Acentophenone	430U	370 U	570U	380U	340U	390U	380U	400U	350U	10U	500,000
Atrazine	430U	370 U	570U	380U	340U	390U	380U	400U	350U	10U	NVG
Benzaldehyde	430U	370 U	570U	380U	340U	390U	380U	400U	350U	10U	NVG
Caprolactam	430U	370 U	570U	380U	340U	390U	380U	400U	350U	10U	NVG
Notes: U- Not detected at or above laboratory detection limits. NVG - No Value Given. B - Compound detected in laboratory method blank J- Detection under laboratory detection limits Detections shown in bold *Bottom X is a duplicate of Bot #, XWallX is a duplicate of East Wall 1 Bold and boxed indicates value is above the NYSDEC Part 375 Restricted Commercial Cleanup Value											

Table 5

Analytical Results for Semi-Volatile Organic Compounds in Soil Endpoint Samples

Empire State Varnish
38 Varick Street, Brooklyn, New York

Sample ID Depth in Feet Date Sampled	N Wall (3-5 FT) 3-5 ft 10/24/2007	SE Wall (3-5FT) 3-5 ft 10/23/2007	SE Wall (8FT) 8 10/23/2007	SE Wall (8FT) 8 10/23/2007	SW Wall (3-5FT) 3-5 ft 10/23/2007	SW Wall (8FT) 8ft 10/23/2007	WS WALL 5 ft 10/23/2007	FB 10/24 NA 10/24/2007	NYSDEC Restricted Commercial Part 375
Semi-Volatile Organic Compounds									
Units	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/KG
Phenol	400U	380U	390 U	360 U	400U	420U	380U	10 U	500,000
bis(2-Chloroethyl)Ether	400U	380U	390 U	360 U	400U	420U	380U	10 U	NVG
2-Chlorophenol	400U	380U	390 U	360 U	400U	420U	380U	10 U	NVG
2-Methylphenol	400U	380U	390 U	360 U	400U	420U	380U	10 U	500,000
2,2'-oxybis(1-Chloropropane)	400U	380U	390 U	360 U	400U	420U	380U	10 U	NVG
4-Methylphenol	400U	380U	390 U	360 U	400U	420U	380U	10 U	NVG
N-Nitroso-di-n-propylmine	400U	380U	390 U	360 U	400U	420U	380U	10 U	NVG
Hexachloroethane	400U	380U	390 U	360 U	400U	420U	380U	10 U	NVG
Nitrobenzene	400U	380U	390 U	360 U	400U	420U	380U	10 U	NVG
Isophorone	400U	380U	390 U	360 U	400U	420U	380U	10 U	NVG
2-Nitrophenol	400U	380U	390 U	360 U	400U	420U	380U	10 U	NVG
2,4-Dimethylphenol	400U	380U	390 U	360 U	400U	420U	380U	10 U	NVG
2,4-Dichlorophenol	400U	380U	390 U	360 U	400U	420U	380U	10 U	NVG
Naphthalene	91J	210J	390 U	360 U	240J	420U	390	10 U	500,000
4-Chloroaniline	400U	380U	390 U	360 U	400U	420U	380U	10 U	NVG
Hexachlorobutadiene	400U	380U	390 U	360 U	400U	420U	380U	10 U	NVG
bis(2-Chloroethoxy)methane	400U	380U	390 U	360 U	400U	420U	380U	10 U	NVG
4-Chloro-3-Methylphenol	400U	380U	390 U	360 U	400U	420U	380U	10 U	NVG
2-Methylnaphthalene	46J	180J	390 U	360 U	160J	420U	230J	10 U	NVG
Hexachlorocyclopentadiene	400U	380U	390 U	360 U	400U	420U	380U	10 U	NVG
2,4,6-Trichlorophenol	400U	380U	390 U	360 U	400U	420U	380U	20 U	NVG
2,4,5-Trichlorophenol	810U	780U	800U	730 U	810U	860U	780U	10 U	NVG
2-Chloronaphthalene	400U	380U	390U	360 U	400U	420U	380U	20 U	NVG
2-Nitroaniline	810U	780U	800U	730 U	810U	860U	780U	10 U	NVG
Dimethylphthalate	400U	380U	390U	360 U	400U	420U	380U	10 U	NVG
Acenaphthylene	68J	63J	390U	360 U	90J	420U	200J	10 U	500,000
2,6-Dinitrotoluene	400U	380U	390U	360 U	400U	420U	380U	20 U	NVG
3-Nitroaniline	810U	780U	800U	730 U	810U	860U	780U	10 U	NVG
Acenaphthene	100J	220J	390U	51 J	160J	420U	650	20 U	500,000
2,4-Dinitrophenol	810U	780U	800U	730 U	810U	860U	780U	20 U	NVG
4-Nitrophenol	810U	780U	800U	730 U	810U	860U	780U	740 U	NVG
Notes: U- Not detected at or above laboratory detection limits. NVG - No Value Given. Detections shown in bold J- Detection under laboratory detection limits *Bottom X is a duplicate of Bot #2 Bold and boxed indicates value is above the NYSDEC Part 375 Restricted Commercial Cleanup Value									

Table 5

Analytical Results for Semi-Volatile Organic Compounds in Soil Endpoint Samples

Empire State Varnish
38 Varick Street, Brooklyn, New York

Sample ID Depth in Feet Date Sampled	N Wall (3-5 FT) 3-5 ft 10/24/2007	SE Wall (3-5FT) 3-5 ft 10/23/2007	SE Wall (8FT) 8 10/23/2007	SW Wall (3-5FT) 3-5 ft 10/23/2007	SW Wall (8FT) 8 10/23/2007	WS WALL 5 ft 10/23/2007	FB 10/24 NA 10/24/2007	NYSDEC Restricted Commercial Part 375
Semi-Volatile Organic Compounds								UG/KG
Units	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Dibenzofuran	67J	80J	390U	100J	420U	470	10U	350,000
2,4-Dinitrotoluene	400U	380U	390 U	400U	420U	380U	10U	NVG
Diethylphthalate	400U	84J	1,000	400U	120J	380U	10U	NVG
4-Chlorophenyl-phenylether	400U	380U	390U	400U	420U	380U	10U	NVG
Fluorene	110J	160J	390U	150J	420U	700	10U	500,000
4-Nitroaniline	810U	780U	800U	810U	860U	780U	20U	NVG
4,6-Dinitro-2-methylphenol	810U	780U	800U	810U	860U	780U	20U	NVG
N-Nitrosodiphenylamine_(1)	400U	380U	390U	400U	420U	380U	10U	NVG
4-Bromophenyl-phenylether	400U	380U	390U	400U	420U	380U	10U	NVG
Hexachlorobenzene	400U	380U	390U	400U	420U	380U	10U	6,000
Pentachlorophenol	810U	780U	800U	810U	860U	780U	20U	6,700
Phenanthrene	1,300	1,600	250J	1,600	420U	4,800	10U	500,000
Anthracene	320J	340J	55J	360J	420U	1,400	10U	500,000
Carbazole	170J	170J	390U	170J	420U	540	10U	NVG
Di-n-butyl phthalate	400U	380U	390U	400U	420U	380U	10U	NVG
Fluoranthene	1,800	3,100	390J	2,700	70J	4,800	10U	500,000
Pyrene	1,500	2,400	370J	2,100	94J	4,100	10U	500,000
Butylbenzylphthalate	400U	380U	390U	400U	420U	380U	10U	NVG
3,3'-Dichlorobenzidine	400U	380U	390U	400U	420U	380U	10U	NVG
Benzo (a) anthracene	920	2,000	210J	1,300	78J	2,100	10U	5,600
Chrysene	930	2,600	210J	1,700	85J	2,000	10U	56,000
bis(2-Ethylhexyl)phthalate	87J	59J	390U	400U	420U	380U	10U	NVG
Di-n-octylphthalate	400U	380U	390U	400U	420U	380U	10U	NVG
Benzo(b)fluoranthene	1,300	4,100	270J	2,100	100J	1,900	10U	5,600
Benzo(k)fluoranthene	580	1,300	120J	1,100	73J	1,100	10U	56,000
Benzo(a)pyrene	980	2,400	220J	1,500	90J	1,800	10U	1,000
Indeno(1,2,3-cd)pyrene	800	2,300	140J	1,200	56J	980	10U	5,600
Dibenzo(a,h)anthracene	230J	720	46J	410	420U	310J	10U	560
Benzo(g,h,i)perylene	900	2,600	190J	1,400	71J	1,100	10U	500,000
1,1'-Biphenyl	400U	380U	390U	400U	420U	72J	10U	NVG
Acentophenone	400U	380U	390U	400U	420U	380U	10U	500,000
Atrazine	400U	380U	390U	400U	420U	380U	10U	NVG
Benzaldehyde	400U	380U	390U	400U	420U	380U	10U	NVG
Caprolactam	400U	380U	390U	400U	420U	380U	10U	NVG
<p>Notes: U- Not detected at or above laboratory detection limits. NVG - No Value Given. B - Compound detected in laboratory method blank J- Detection under laboratory detection limits Detections shown in bold *Bottom X is a duplicate of Bot #2 Bold and boxed indicates value is above the NYSDEC Part 375 Restricted Commercial Cleanup Value</p>								

Table 5									
Analytical Results for Semi-Volatile Organic Compounds in Soil Endpoint Samples									
Empire State Varnish 38 Varick Street, Brooklyn, New York									
Sample ID Depth in Feet Date Sampled	Fume A 2 ft. 11/16/2007	Fume B 2 ft. 11/16/2007	Fume C 2 ft. 11/16/2007	Fume Bot 4 ft. 11/16/2007	X Bot X* 4 ft. 11/16/2007	Pipes 5 in. 11/19/2007	FB 11/16 NA 11/16/2007	FB 11/19 NA 11/19/2007	NYSDEC Restricted Commercial Part 375
Semi-Volatile Organic Compounds	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Phenol	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	500,000
bis(2-Chloroethyl)Ether	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
2-Chlorophenol	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
2-Methylphenol	340 U	360 U	330 U	360 U	170 J	400 U	10 U	10 U	500,000
2,2'-oxybis(1-Chloropropane)	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
4-Methylphenol	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
N-Nitroso-di-n-propylamine	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
Hexachloroethane	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
Nitrobenzene	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
Isophorone	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
2-Nitrophenol	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
2,4-Dimethylphenol	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
2,4-Dichlorophenol	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
Naphthalene	40 J	37 J	330 U	54 J	160 J	110 J	10 U	10 U	500,000
4-Chloroaniline	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
Hexachlorobutadiene	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
bis(2-Chloroethoxy)methane	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
4-Chloro-3-Methylphenol	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
2-Methylnaphthalene	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
Hexachlorocyclopentadiene	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
2,4,6-Trichlorophenol	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
2,4,5-Trichlorophenol	700 U	730 U	670 U	740 U	1,700 U	800 U	20 U	20 U	NVG
2-Chloronaphthalene	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
2-Nitroaniline	700 U	730 U	670 U	740 U	1,700 U	800 U	20 U	20 U	NVG
Dimethylphthalate	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
Acenaphthylene	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	500,000
2,6-Dinitrotoluene	340 U	360 U	330 U	360 U	2,200	44 J	10 U	10 U	NVG
3-Nitroaniline	700 U	730 U	670 U	740 U	1,700 U	800 U	20 U	20 U	NVG
Acenaphthene	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	500,000
2,4-Dinitrophenol	700 U	730 U	670 U	740 U	1,700 U	800 U	20 U	20 U	NVG
4-Nitrophenol	700 U	730 U	670 U	740 U	1,700 U	800 U	20 U	20 U	NVG
Notes: U- Not detected at or above laboratory detection limits. NVG - No Value Given. Detections shown in bold J- Detection under laboratory detection limits *Bottom X is a duplicate of Fume Bot. Bold and boxed indicates value is above the NYSDEC Part 375 Restricted Commercial Cleanup Value									

Table 5									
Analytical Results for Semi-Volatile Organic Compounds in Soil Endpoint Samples									
Empire State Varnish 38 Varick Street, Brooklyn, New York									
Sample ID Depth in Feet Date Sampled	Fume A 2 ft. 11/16/2007	Fume B 2 ft. 11/16/2007	Fume C 2 ft. 11/16/2007	Fume Bot 4 ft. 11/16/2007	X Bot X* 4 ft. 11/16/2007	Pipes 5 in. 11/19/2007	FB 11/16 NA 11/16/2007	FB 11/19 NA 11/19/2007	NYSDEC Restricted Commercial Part 375
Semi-Volatile Organic Compounds Units	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/L	UG/KG
Dibenzofuran	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	350,000
2,4-Dinitrotoluene	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
Diethylphthalate	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
4-Chlorophenyl-phenylether	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
Fluorene	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	500,000
4-Nitroaniline	700 U	730 U	670 U	740 U	1,700 U	800 U	20 U	20 U	NVG
4,6-Dinitro-2-methylphenol	700 U	730 U	670 U	740 U	1,700 U	800 U	20 U	20 U	NVG
N-Nitrosodiphenylamine_(1)	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
4-Bromophenyl-phenylether	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
Hexachlorobenzene	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	6,000
Pentachlorophenol	700 U	730 U	670 U	740 U	1,700 U	800 U	20 U	20 U	6,700
Phenanthrene	370	540	240 J	440	2,000	400 U	10 U	10 U	500,000
Anthracene	97 J	110 J	55 J	160 J	2,600	400 U	10 U	10 U	500,000
Carbazole	37 J	53 J	330 U	360 U	830 U	400 U	10 U	10 U	NVG
Di-n-butyl phthalate	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
Fluoranthene	940	1,100	400	1,600	9,700	88 J	10 U	10 U	500,000
Pyrene	740	830	290 J	1,200	6,400	110 J	10 U	10 U	500,000
Butylbenzylphthalate	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
3,3'-Dichlorobenzidine	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
Benzo (a) anthracene	610	500	210 J	1,600	12,000	73 J	10 U	10 U	5,600
Chrysene	580	540	200 J	1,600	12,000	120 J	10 U	10 U	56,000
bis(2-Ethylhexyl)phthalate	110 J	40 J	64 J	58 J	230 J	4,400	10 U	10 U	NVG
Di-n-octylphthalate	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
Benzo(b)fluoranthene	850	580	240 J	2,300	13,000	220 J	10 U	10 U	5,600
Benzo(k)fluoranthene	380	340 J	140 J	2,000	12,000	220 J	10 U	10 U	56,000
Benzo(a)pyrene	670	480	210 J	2,300	13,000	170 J	10 U	10 U	1,000
Indeno(1,2,3-cd)pyrene	490	310 J	160 J	1,700	9,500	200 J	10 U	10 U	5,600
Dibenzo(a,h)anthracene	190 J	64 J	49 J	670	3,800	48 J	10 U	10 U	560
Benzo(g,h,i)perylene	560	360 J	200 J	1,900	10,000	270 J	10 U	10 U	500,000
1,1'-Biphenyl	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
Acentophenone	340 U	360 U	330 U	40 J	110 J	400 U	10 U	10 U	500,000
Atrazine	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
Benzaldehyde	280 J	170 J	330 U	330 J	3400	400 U	10 U	10 U	NVG
Caprolactam	340 U	360 U	330 U	360 U	830 U	400 U	10 U	10 U	NVG
Notes: U- Not detected at or above laboratory detection limits. NVG - No Value Given. B - Compound detected in laboratory method blank J- Detection under laboratory detection limits Detections shown in bold X Bottom X* is a duplicate of Fume Bot. NA = Not Applicable Bold and boxed indicates value is above the NYSDEC Part 375 Restricted Commercial Cleanup Value									

<p align="center">Table 6</p> <p align="center">Analytical Results for PCB's in Soil Endpoint Samples</p> <p align="center">Empire State Varnish</p> <p align="center">38 Varick Street, Brooklyn, New York</p>											
Sample ID Depth in Feet Date Sampled	Bottom #1 13 10/4/2007	Bottom #2 11 10/4/2007	Bottom X 11 10/4/2007	North Wall E 6 10/4/2007	North Wall W 6.5 10/4/2007	West Wall N 6.8 10/4/2007	West Wall N 3-5 Ft 10/16/2007	West Wall S 6.5 10/4/2007	West Wall S 3-5 Ft 10/16/2007	FB 10/4 NA 10/4/2007	NYSDEC Restricted Commercial Part 375
PCB Organic Compounds											
Units	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/KG
Aroclor 1016	39 U	38 U	39 U	36 U	36 U	37 U	38 U	37 U	40 U	1.0 U	NVG
Aroclor 1221	39 U	38 U	39 U	36 U	36 U	37 U	38 U	37 U	40 U	1.0 U	NVG
Aroclor 1232	39 U	38 U	39 U	36 U	36 U	37 U	38 U	37 U	40 U	1.0 U	NVG
Aroclor 1242	39 U	38 U	39 U	36 U	36 U	37 U	38 U	37 U	40 U	1.0 U	NVG
Aroclor 1248	39 U	38 U	39 U	36 U	36 U	37 U	38 U	37 U	40 U	1.0 U	NVG
Aroclor 1254	39 U	76	100	59	36 U	37 U	130P	37 U	40 U	1.0 U	NVG
Aroclor 1260	39 U	38 U	39 U	36 U	36 U	37 U	38 U	37 U	40 U	1.0 U	NVG
<p><i>Notes:</i></p> <p>U- Not detected at or above laboratory detection limits.</p> <p>NVG - No Value Given.</p> <p>*Bottom X is a duplicate of Bot #2</p> <p>Detections shown in bold</p> <p>UG/KG= Micrograms per kilogram or parts per billion</p> <p>UG/L= Micrograms per liter or parts per billion</p> <p>Total PCB's not to exceed 1,000 UG/KG</p>											

<p align="center">Table 6</p> <p align="center">Analytical Results for PCB's in Soil Endpoint Samples</p> <p align="center">Empire State Varnish</p> <p align="center">38 Varick Street, Brooklyn, New York</p>											
<p align="center">Sample ID Depth in Feet Date Sampled</p>	<p align="center">B1 (13 FT) 13 10/23/2007</p>	<p align="center">B2 (13 FT) 13 10/23/2007</p>	<p align="center">B3 (11 FT) 11 10/24/2007</p>	<p align="center">B4 (11 FT) 11 10/24/2007</p>	<p align="center">B5 (9 FT) 9 10/24/2007</p>	<p align="center">East Wall 1 3-5 ft 10/23/2007</p>	<p align="center">XWallX 3-5 ft 10/23/2007</p>	<p align="center">East Wall 2 3-5 ft 10/23/2007</p>	<p align="center">East Wall 3 3-5 ft 10/23/2007</p>	<p align="center">FB 10/23 NA 10/23/2007</p>	<p align="center">NYSDEC Restricted Commercial Part 375</p>
PCB Organic Compounds											
Units											UG/KG
Aroclor 1016	43 U	37 U	57 U	39 U	35 U	40 U	38 U	41 U	36 U	1.0 U	NVG
Aroclor 1221	43 U	37 U	57 U	39 U	35 U	40 U	38 U	41 U	36 U	1.0 U	NVG
Aroclor 1232	43 U	37 U	57 U	39 U	35 U	40 U	38 U	41 U	36 U	1.0 U	NVG
Aroclor 1242	43 U	37 U	57 U	39 U	35 U	40 U	38 U	41 U	36 U	1.0 U	NVG
Aroclor 1248	43 U	37 U	57 U	39 U	35 U	40 U	38 U	41 U	36 U	1.0 U	NVG
Aroclor 1254	43 U	37 U	57 U	39 U	35 U	40 U	38 U	41 U	36 U	1.0 U	NVG
Aroclor 1260	43 U	37 U	57 U	39 U	35 U	40 U	38 U	41 U	36 U	1.0 U	NVG
<p><i>Notes:</i></p> <p><i>U- Not detected at or above laboratory detection limits.</i></p> <p><i>NVG - No Value Given.</i></p> <p><i>*Bottom X is a duplicate of Bot #2</i></p> <p><i>Detections shown in bold</i></p> <p><i>UG/KG= Micrograms per kilogram or parts per billion</i></p> <p><i>UG/L= Micrograms per liter or parts per billion</i></p> <p>Total PCB's not to exceed 1,000 UG/KG</p>											

Table 6
Analytical Results for PCB's in Soil Endpoint Samples
Empire State Varnish
38 Varick Street, Brooklyn, New York

Sample ID Depth in Feet Date Sampled	N Wall (3-5 FT) 3-5 ft 10/24/2007	SE Wall (3-5FT) 3-5 ft 10/23/2007	SE Wall (8FT) 8 10/23/2007	SW Wall (8FT) 8ft 10/23/2007	WS WALL 5 ft 10/23/2007	FB 10/24 NA 10/24/2007	NYSDEC Restricted Commercial Part 375
PCB Organic Compounds Units							UG/KG
Aroclor 1016	40 U	38 U	40 U	43 U	38 U	1.0 U	NVG
Aroclor 1221	40 U	38 U	40 U	43 U	38 U	1.0 U	NVG
Aroclor 1232	40 U	38 U	40 U	43 U	38 U	1.0 U	NVG
Aroclor 1242	40 U	38 U	40 U	43 U	38 U	1.0 U	NVG
Aroclor 1248	40 U	38 U	40 U	43 U	38 U	1.0 U	NVG
Aroclor 1254	40 U	38 U	40 U	43 U	38 U	1.0 U	NVG
Aroclor 1260	40 U	38 U	40 U	43 U	38 U	1.0 U	NVG

Notes:

U- Not detected at or above laboratory detection limits.

NVG - No Value Given.

*Bottom X is a duplicate of Bot #2

Detections shown in bold

UG/KG= Micrograms per kilogram or parts per billion

UG/L= Micrograms per liter or parts per billion

Total PCB's not to exceed 1,000 UG/KG

<p align="center">Table 6</p> <p align="center">Analytical Results for PCB's in Soil Endpoint Samples</p> <p align="center">Empire State Varnish</p> <p align="center">38 Varick Street, Brooklyn, New York</p>									
<p align="center">Sample ID Depth in Feet Date Sampled</p>	<p align="center">Fume A 2 ft. 11/16/2007</p>	<p align="center">Fume B 2 ft. 11/16/2007</p>	<p align="center">Fume C 2 ft. 11/16/2007</p>	<p align="center">Fume Bot 4 ft. 11/16/2007</p>	<p align="center">X Bot X 4 ft. 11/16/2007</p>	<p align="center">Pipes 5 in. 11/19/2007</p>	<p align="center">FB 11/16 NA 11/16/2007</p>	<p align="center">FB 11/19 NA 11/19/2007</p>	<p align="center">NYSDEC Restricted Commercial Part 375</p>
PCB Organic Compounds									
Units	<u>UG/KG</u>	<u>UG/KG</u>	<u>UG/KG</u>	<u>UG/KG</u>	<u>UG/KG</u>	<u>UG/KG</u>	<u>UG/L</u>	<u>UG/L</u>	<u>UG/KG</u>
Aroclor 1016	34 U	37 U	33 U	37 U	42 U	33 U	1.0 U	1.0 U	NVG
Aroclor 1221	34 U	37 U	33 U	37 U	42 U	33 U	1.0 U	1.0 U	NVG
Aroclor 1232	34 U	37 U	33 U	37 U	42 U	33 U	1.0 U	1.0 U	NVG
Aroclor 1242	34 U	37 U	33 U	37 U	42 U	33 U	1.0 U	1.0 U	NVG
Aroclor 1248	34 U	37 U	33 U	37 U	42 U	33 U	1.0 U	1.0 U	NVG
Aroclor 1254	34 U	37 U	33 U	37 U	42 U	120	1.0 U	1.0 U	NVG
Aroclor 1260	34 U	37 U	33 U	37 U	42 U	33 U	1.0 U	1.0 U	NVG
<p><i>Notes:</i></p> <p><i>U- Not detected at or above laboratory detection limits.</i></p> <p><i>NVG - No Value Given.</i></p> <p><i>Detections shown in bold</i></p> <p><i>UG/KG= Micrograms per kilogram or parts per billion</i></p> <p><i>UG/L= Micrograms per liter or parts per billion</i></p> <p><i>NA = Not Applicable</i></p> <p><i>*Bottom X is a duplicate of Fume Bot.</i></p> <p>Total PCB's not to exceed 1,000 UG/KG</p>									

Table 7

Analytical Results for Metals Inorganic Analytes in Soil Endpoint Samples
Empire State Varnish
38 Varick Street, Brooklyn, New York

Sample ID Depth in Feet Date Sampled	Bottom #1 13 10/4/2007	Bottom #2 11 10/4/2007	Bottom #2 15.5 10/15/2007	Bottom X 11 10/4/2007	North Wall E 6 10/4/2007	North Wall W 6.5 10/4/2007	North Wall W 3-5 ft 10/24/2007	West Wall N 6.8 10/4/2007	West Wall N 3-5ft 10/16/2007	West Wall S 6.5 10/4/2007	West Wall S 3-5ft 10/16/2007	FB 10/4 NA 10/4/2007	NYSDEC Restricted Commercial Part 375	NYSDEC Industrial Part 375
Metals Inorganic Analytes Units	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	UG/L	MG/KG	MG/KG
Arsenic	1.4	15.7	9.6E	16.7	8.3	5.5	9.6N	4.30	24.4 E	8.5	24.3 E	2.5	16	16
Barium	92.1	360	35.4E	564	124	94.4	175N*	68.8	73.8 E	95.4	92.0 E	11.0	400	10,000
Cadmium	0.33	1.8	NA	1.3	0.29	0.29	0.57	0.200	1.4 E	0.13	1.5 E	0.11	9.3	60
Chromium	24.0 N*	37.5	NA	56.0 N*	55.1 N*	16.4 N*	28.2	12.3 N*	15.4 E	13.7N*	31.5 E	0.22	NVG	NVG
Lead	53.3	1,880	24.8	2,000	220	157	622E*	107	47.4 N*E	161	32.3 N*E	1.2	1,000	3,900
Mercury	0.25	0.60	NA	0.58	0.32	0.29	0.40	0.190	0.077	0.27	0.10	0.11	2.8	5.7
Selenium	2.1	2.9	NA	2.3	1.6	2.1	0.092N	1.40	0.10	1.9	0.10	5.2	1,500	6,800
Silver	0.033 U	0.033 U	NA	0.033 U	0.026	0.027 U	3.5E	0.027 U	0.032 N	0.029 U	0.032 N	1.2	1,500	6,800

Notes:

MG/KG - milligram per kilogram or parts per million

NVG- No value Given

*Bottom X is a duplicate of Bot #2

U- Not detected at or above laboratory detection limits.

UG/L = micrograms per liter or parts per billion

N* = Spike recoveries outside limits for this compound

Bold and boxed indicates compound is above NYSDEC Restricted Commercial Limits.

E - Estimated concentration

Table 7

Analytical Results for Metals Inorganic Analytes in Soil Endoint Samples
Empire State Varnish
38 Varick Street, Brooklyn, New York

Sample ID Depth in Feet Date Sampled	B1 (13 FT) 13 10/23/2007	B2 (13 FT) 13 10/23/2007	B3 (11 FT) 11 10/24/2007	B3 (13 FT) 13 10/29/2007	B4 (11 FT) 11 11/24/2007	B5 (9 FT) 9 10/24/2007	East Wall 1 3-5 ft 10/23/2007	XWALLX 5 ft 10/23/2007	East Wall 2 3-5 ft 10/23/2007	East Wall 3 3-5 ft 10/23/2007	FB 10/23 NA 10/23/2007	NYSDEC Restricted Commercial Part 375	NYSDEC Industrial Part 375
Metals Inorganic Analytes													
Units	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
Arsenic	2.4 N	1.6 N	29.3 N	1.5	9.2 N	5.2 E	5.7 N	5.1 N	5.9 E	4.4 E	2.5	16	16
Barium	38.1 N*	25.1 N*	104 N*	NA	72.2 N*	59.9 N*	132 N*	98.3 N*	96.5 N*	325 N*	11.0	400	10,000
Cadmium	0.38	0.43	2.2	NA	2.8	0.31	0.27	0.24	0.64	0.38	0.11	9.3	60
Chromium	9.7 *	8.2 *	18.5 *	NA	9.2 *	11.1 E	9.9 *	9.7	12.0 E	15.3 E	0.49	NVG	NVG
Lead	22.6 *E	92.0 *E	245 *E	NA	595 *E	98.9 E	143 *E	127 *E	128 E	294 E	7.9	1,000	3,900
Mercury	0.22	0.061	0.44	NA	0.26	0.20 N	49.7	60.5	0.27 N	0.81 N	0.11	2.8	5.7
Selenium	0.10 N	0.092 N	0.14 N	NA	0.10 N	0.092 N	0.094 N	0.096 N	0.12 N	0.098 N	5.2	1,500	6,800
Silver	2.4 E	2.4 E	5.5 E	NA	2.2 E	3.0	3.8 E	3.8 E	3.1	3.4	1.2	1,500	6,800

Notes:

MG/KG - milligram per kilogram or parts per million

NVG- No value Given

U- Not detected at or above laboratory detection limits.

UG/L = micrograms per liter or parts per billion

N* = Spike recoveries outside limits for this compound

Bold and boxed indicates compound is above NYSDEC Restricted Commercial Limits.

E - Estimated concentration

Table 7

**Analytical Results for Metals Inorganic Analytes in Soil Endpoint Samples
Empire State Varnish
38 Varick Street, Brooklyn, New York**

Sample ID Depth in Feet Date Sampled	N Wall (3-5 FT) 3-5 ft 10/24/2007	SE Wall (3-5FT) 3-5 ft 10/23/2007	SE Wall (8FT) 8 10/23/2007	SW Wall (8FT) 8ft 10/23/2007	WS WALL 5 ft 10/23/2007	FB 10/24 NA 10/24/2007	NYSDEC Restricted Commercial Part 375	NYSDEC Industrial Part 375
Metals Inorganic Analytes							MG/KG	MG/KG
Units								
Arsenic	7.0 E	6.1 N	3.8 N	3.4 N	19.6 N	2.5	16	16
Barium	304 N*	193 N*	77.4 N*	40.5N*	296 N*	11.0	400	10,000
Cadmium	1.8	1.8	0.22	0.30	0.48	0.11	9.3	60
Chromium	79.0 E	120 *	10.4 *	8.4 *	183 *	0.22	NVG	NVG
Lead	660 E	410 *E	86.1 *E	37.2 *E	817 *E	1.4	1,000	3,900
Mercury	0.64 N	17.4	0.18	0.062	0.29	0.11	2.8	5.7
Selenium	0.093 N	0.095 N	0.091 N	0.11 N	0.10 N	5.2	1,500	6,800
Silver	4.6	6.8 E	2.4 E	2.5 E	4.8 E	1.2	1,500	6,800

Notes:

MG/KG - milligram per kilogram or parts per million

NVG- No value Given

U- Not detected at or above laboratory detection limits.

UG/L = micrograms per liter or parts per billion

N* = Spike recoveries outside limits for this compound

Bold and boxed indicates compound is above NYSDEC Restricted Commercial Limits.

E - Estimated concentration

Table 7

**Analytical Results for Metals Inorganic Analytes in Soil Endpoint Samples
Empire State Varnish
38 Varick Street, Brooklyn, New York**

Sample ID Depth in Feet Date Sampled	Fume A 2 ft. 11/16/2007	Fume B 2 ft. 11/16/2007	Fume C 2 ft. 11/16/2007	Fume Bot 4 ft. 11/16/2007	X Bot X 4 ft. 11/16/2007	Pipes 5 in. 11/19/2007	FB 11/16 NA 11/16/2007	FB 11/19 NA 11/19/2007	NYSDEC Restricted Commercial Part 375	NYSDEC Restricted Industrial Part 375
Metals Inorganic Analytes										
Units	<u>MG/KG</u>	<u>MG/KG</u>	<u>MG/KG</u>	<u>MG/KG</u>	<u>MG/KG</u>	<u>MG/KG</u>	<u>MG/L</u>	<u>MG/L</u>	<u>MG/KG</u>	<u>MG/KG</u>
Arsenic	4.2	2.7	3.9	8.1	19.8	13.1	2.5 U	3.0 U	16	16
Barium	271 *	68.5 *	699*	1,170 *	3,540 *	608 *	11.0 U	11.0 U	400	10,000
Cadmium	0.66 E	0.26 E	0.24 E	1.7 E	6.6 E	6.6 E	0.11 U	0.11 U	9.3	60
Chromium	9.9 N*	5.7 N*	13.8 N*	32.5 N*	108 N*	30.7 N*	0.25 B	0.23 B	NVG	NVG
Lead	1,450	135	119	1,600	8,250	1,820	1.2 U	1.2 U	1,000	3,900
Mercury	0.092 N*	0.71 N*	0.53 N*	0.10 N*	0.34 N*	2.2 N*	0.11 U	0.11 U	2.8	5.7
Selenium	0.10 UN	0.10 UN	0.079 UN	0.10 UN*	0.12 UN	0.097 N	5.2 U	5.2 U	1,500	6,800
Silver	2.1	0.90 B	1.2	2.9	4.4	7.1	1.2 U	1.2 U	1,500	6,800

Notes:

MG/KG - milligram per kilogram or parts per million

NVG- No value Given

*Bottom X is a duplicate of Fume Bot.

U- Not detected at or above laboratory detection limits.

UG/L = micrograms per liter or parts per billion

N* = Spike recoveries outside limits for this compound

Bold and boxed indicates compound is above NYSDEC Restricted Commercial Limits.

E - Estimated concentration

NA = Not Applicable

Table 8

Analytical Results for Lead and Barium in Soil
Beneath Former Fume Scrubber
Empire State Varnish
38 Varick Street, Brooklyn, New York

Sample ID Depth in Feet Date Sampled	Bot A 4.5 ft. 12/11/2007	Bot A 5.5 ft. 12/11/2007	Bot B 4.5 ft. 12/11/2007	Bot B 5.5 ft. 12/11/2007	Bot C 4.5 ft. 12/11/2007	Bot C 5.5 ft. 12/11/2007	NYSDEC Restricted Commercial Part 375
Metals Inorganic Analytes							
Units	<u>MG/KG</u>	<u>MG/KG</u>	<u>MG/KG</u>	<u>MG/KG</u>	<u>MG/KG</u>	<u>MG/KG</u>	<u>MG/KG</u>
Barium	39.2	45.4	951	60.4	43.6	28.8	400
Lead	3.3	25.6	1,710	29.4	34.4	3.9	1,000

Notes:

MG/KG - milligram per kilogram or parts per million

Bold indicates compound is above NYSDEC Restricted Commercial Limits.

